ܟܬܒ̈ܐ ܠܫܢܐ ܕܚܡܫܐ
ܘܠܫܢܐ ܐܬܪܝܐ ܚܠܐ

ܫܘܠܚ ܡܠܐ

ܡܛܒܥܐ ܕܡܪܕܘܬܐ 2000

ܫܘܬܦܐ ܕܦܪܣܐ ܒ 1997

له چاپخانەی وەزارەتی پەروەردە چاپ کراوە
سالی 1997

هەریمی کوردستانی
عیراق
وەزارەتی پەروەردە
بەریوەبەرایەتی گشتی پروگرام
ونەخشەی پەروەردە

ܡܠܟܘܬܐ ܕܟܘܪܕܣܬܢ
ܕܥܝܪܩ
ܡܥܪܟܬ ܬܪܒܝܬܐ

ܡܫܘܚܬܐ

ܠܣܕܪܐ ܫܬܝܬܝܐ ܡܪܘܝܐ

ܬܘܪܓܡܐ ܡܢ :
ܫܢܬܐ ܕܝܘܠܦܢܐ
ܡܕܒܪܢܘܬܐ ܕܝܘܠܦܢܐ ܕܣܘܪܝܝܐ
ܣܘܪܝܐ - 1996

سالی ١٩٩٧

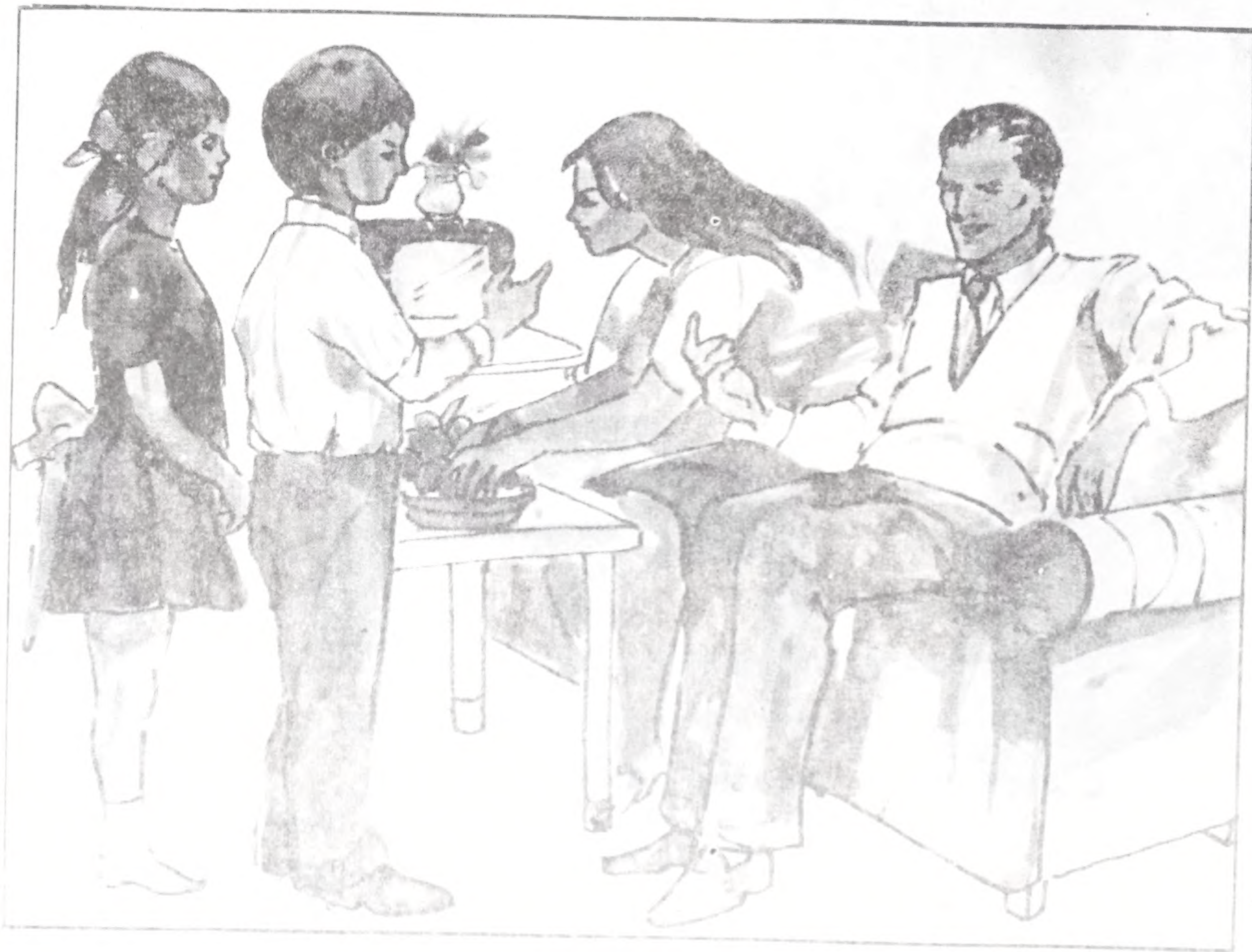
لە چاپخانەی وەزارەتی پەروەردە چاپ کراوە

[illegible]

ܦܫܘܛܐ ܡܕܡܐ - ܒܝܬܘܬܐ

١ - ١ ܒܝܬܘܬܐ

ܗܕܐ ܕܐ̈ܢܫܐ ܕܒܝܬܘܬܐ ܕܫܠܝܡܘܢ ܗܠܝܢ، ܘܡܬܩܪ̈ܝܢܐ ܝܢ : ܒܒܐ (ܫܠܝܡܘܢ)،
ܝܡܐ (ܫܡܝܪܡ)، ܘܒܪܬܐ (ܐܪܘܡܐ)، ܘܒܪܐ(ܫܘܒܚ).

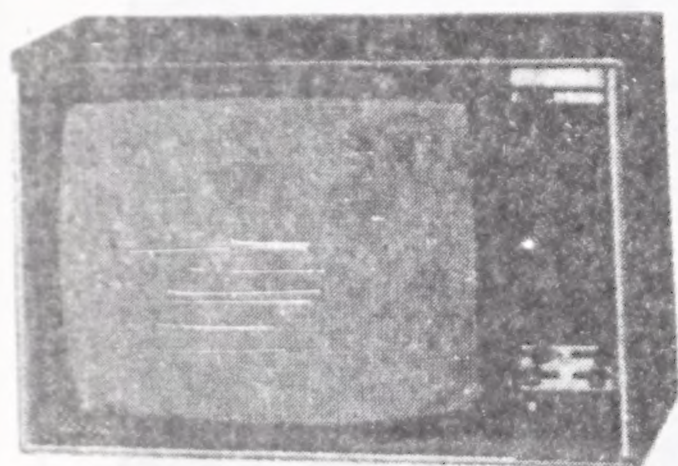


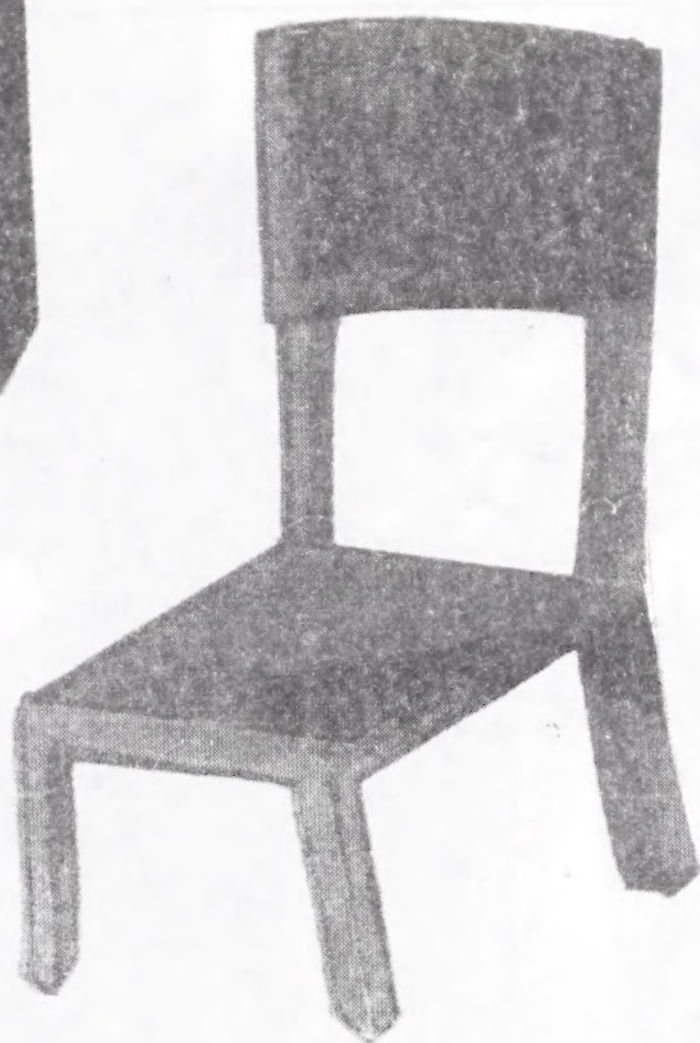
ܨܘܪܬܐ (١ - ١)

ܗܕܐ ܕܐܢܫܘܬܐ ܕܫܠܝܡܘܢ ܡܬܚܙܝܐ (ܒܝܬܘܬܐ)، ܘܟܠ ܚܕ ܡܢ ܗ̈ܕܡܐ
(ܕܡܬܩܪܐ) ܠܗ ܕܐܝܬܝܗ ܒܝܬܘܬܐ. ܗܢܐ ܘܟܕ ܕܡܬܩܪܐ ܕܐܝܬܝܗ ܒܝܬܘܬܐ ܗܢܐ :
ܫܠܝܡܘܢ، ܫܡܝܪܡ ܐܪܘܡܐ، ܫܘܒܚ.

ܘܐܡܪܝܢ ܕܫܠܝܡܘܬܗ (ܡܬܝܕܥܐ ܠܗ̇) ܫܘܡܗܐ ܠܦܪܘܫܐ ܗܘ̇ ܕ(ܫܠܝܡܘܬܗ)
ܚܕ ܦܪܨܘܦܐ ܝܠܗ̇ ܕܘܟܬܐ ܚܝܘܬܐ

ܨܘܪܬܐ ܕܐܬܝܐ ܡܚܘܝܐ ܫܘܡܗܐ ܕܬܫܡܫܬܐ ܐܝܟ :
ܦܛܒܘܠ ، ܟܘܪܣܝܐ ، ܫܥܬܐ ، ܬܠܘܙܐ ، ܫܢܛܐ
ܡܬܝܕܥܐ ܠܐܢܐ ܫܘܡܗܐ، ܐܝܟ (ܦܛܒܘܠ) ܠܐ ܡܬܝܕܥܐ ܠܐܢܐ ܫܘܡܗܐ.











ܨܘܪܬܐ (١ - ٢)

ܗܕܟܐ ܐܢܬܬܐ ܕܫܘܡܗܐ ܢܕܝܪܐ ܡܢܝܢ ܫܘܡܗܐ ܕܬܫܡܫܬܐ : ܟܣܦܐ
ܗܘܠܦܢܐ ، ܫܝܢܐ ، ܫܘܩܐ ، ܟܘܪܐ.

ܐܢ ܐܡܪܚ ܠܫܘܡܗܐ ܕܒܫܢܐ ܒܐܡܪܐ ܗ : (ܟܘܪܣܝܐ) ܡܬܝܕܥܐ ܠܗ ܗ ، ܐܝܟ
(ܗܘܠܦܢܐ) ܠܐ ܡܬܝܕܥܐ ܠܗ ܗ.

ܡܬ݂ܼܠܵܐ (١)

... ܝܗܠܘܦܩܐ ܠܗ ܟܢܘܫܝܐ ܕܡܠܥܒܢܘ̈ܬܐ ܕܠܒܘܕܠܒܐ؟

... ܠܨܘܪܬܐ (١ - ٣). ܝܗܠܘܦܩܐ ܕܗܘܐ ܟܢܘܫܝܐ ܐܝܢܐ :

... ܗܕܡ̈ܐ ، .... ، .... ، ....

... ܕܡܘܟܢ ܠܗܘܐ ܟܢܘܫܝܐ ܒܫܡܐ ܒ :

... (ܗܕܡ̈ܐ) ܡܬܚܝܒܐ ܠ ܒ ، ܘܡܬܚܝܒܐ .... ܡܬܚܝܒܐ ܠ ܒ ،

... ܐܝܢܐ .... ܠܐ ܡܬܚܝܒܐ ܠ ܒ .

ܨܘܪܬܐ (١ - ٣)

ܟܢܘܫܝܐ ܕܡܠܥܒܢܘ̈ܬܐ ܕܠܒܘܕܠܒܐ

ܡܬ݂ܼܠܵܐ (٢)

ܟܢܘܫܝܐ ܕܦܠܘܓܐ ܕܡܢܝܢܐ ١٢ ܐܝܬ ܒܗ ٦ ܝܗܠܘܦܩܐ ܐܝܢܐ :

١ ، ٢ ، ٣ ، ٤ ، ٦ ، ١٢

ܕܡܘܟܢ ܠܗܘܐ ܟܢܘܫܝܐ ܒܫܡܐ ܕ :

٣ ܦܠܘܓܐ ܡܢ ܦܠܘܓܐ ܕܡܢܝܢܐ ١٢ ، ܒܗܘ ܕܗܘܐ

٣ ܡܬܚܝܒܐ ܠ ܕ. ܐܝܢܐ ٥ ܠܐ ܐܝܬܘ ܦܠܘܓܐ ܡܢ ܦܠܘܓܐ

ܡܬܚܝܒܐ ܠ ܕ. ܕܡܢܝܢܐ ١٢ ، ܒܗܘ ܕܗܘܐ ٥ ܠܐ

ܕ ، ١ ، ٢ ، ٣ ، ٤ ، ٦ ، ١٢

ܨܘܪܬܐ (١ - ٤)

ܟܢܘܫܝܐ ܕܦܠܘܓܐ ܕܡܢܝܢܐ ١٢

ܬܡܪܝܢ :

٤ [ ] ܕ ، ٧ [ ] ܕ ، [ ] ܡܬܚܝܒܐ ܠ ܕ ، [ ] ܠܐ ܡܬܚܝܒܐ ܠ ܕ .

ܡܬ݂ܼܠܵܐ (٣)

ܡܢܝܢܐ ٦٣٢٥ ܡܬܒܢܐ ܐܝܬܘ ܕܗܘܐ ܡܢ ܐܪܒܥ ܕܡܢܐ. ܡܢ ܐܝܢܐ؟

ܡܢܐ ܝܗܠܘܦܩܐ ܠܗ ܟܢܘܫܝܐ ܕܕܡܢܐ ܕܡܢܝܢܐ ٦٣٢٥ ؟

ܦܫܘܛ ܡܫܘܚܠܬܐ ܚܘܒܪܐ ܕܩܘܡܝܐ ܕܡܢܝܢ̈ܐ ٦٣٢٥ ܓܘ ܨܘܪܬܐ (١ - ٥)
٣ ܝܠܗ ܚܕ ܡܢ ܩܘܡܝܐ ܕܡܢܝܢ̈ܐ ٦٣٢٥
ܡܕܝܢ ٣ ܡܬܚܫܒܐ ܠ ܗ .
- ܐܕܐ ٢ ܡܬܚܫܒܐ ܠ ܗ ؟



ܐܝܢ ☐ ܠܐ ☐

- ܐܕܐ ٣٠٠ ܡܬܚܫܒܐ ܠ ܗ ؟

ܐܝܢ ☐ ܠܐ ☐

- ܐܕܐ ٦ ܡܬܚܫܒܐ ܠ ܗ ؟

ܐܝܢ ☐ ܠܐ ☐.

ܨܘܪܬܐ (١ - ٥)
ܚܘܒܪܐ ܕܩܘܡܝܐ ܕܡܢܝܢ̈ܐ ٦٣٢٥

- ܒܬܪ ܨܠܡܘܬ̈ܐ ܕܚܘܒܪܐ ܕܩܘܡܝܐ ܡܘܦܠܚ ܓܘ ܚܒܝܫܬܐ ܕܩܘܡܝܐ ܕܡܢܝܢ̈ܐ ٢٦٣٢٥. ܡܘ ܫܘܢܝܐ ܗܘܐ؟ ܘܡܘ ܡܫܘܚܠܦܐ ܗܘܐ ؟

ܬܘܪܓܐ (٤)

ܐ̈ܬܘܬܐ ܕܐܠܦ ܘܒܝܬ ܡܘܦܠܚ ܓܘ ܚܒܝܫܬܐ ܕܡܠܬܐ (ܢܚܫ) ܐܢܝܢ ܒ، ܐ، ܕ. ܨܘܪܬܐ (١ - ٦) ܡܫܘܚܠܦܐ ܚܘܒܪܐ ܕܐ̈ܬܘܬܐ ܕܡܠܬܐ (ܡܐܘܬܐ).
- ܦܫܘܛ ܨܠܡܘܬ̈ܐ ܕܚܘܒܪܐ ܕܐ̈ܬܘܬܐ ܡܘܦܠܚ ܓܘ ܚܒܝܫܬܐ ܕܡܠܬܐ (ܢܘܫܐ)
- ܦܫܘܛ ܨܠܡܘܬ̈ܐ ܕܚܘܒܪܐ ܕܐ̈ܬܘܬܐ ܡܘܦܠܚ ܓܘ ܚܒܝܫܬܐ ܕܡܠܬܐ (ܬܪܥܐ).
- ܚܙܝ ܚܕܐ ܐܬܘܬܐ ܡܬܚܫܒܬܐ ܠܚܘܒܪܐ ܕܐ̈ܬܘܬܐ ܕܡܠܬܐ (ܢܚܫ)، ܘܐܬܘܬܐ ܠܐ ܡܬܚܫܒܬܐ ܠܗ.



ܨܘܪܬܐ (١ - ٦)
ܚܘܒܪܐ ܕܐ̈ܬܘܬܐ ܕܡܠܬܐ (ܢܚܫ)

ܬܘܪܓܐ (٥)

ܚܒܝܫܐ ܕܡܢܝܢ̈ܐ ٥ ܐܢܝܢ ٥، ١٠، ١٥، ......

ܚܘܝܕܐ ܕܡܢܝܢ̈ܐ ܕܡܥܘܦ̈ܐ ٥ ܘܙܥܘܪ̈ܐ ܡܢ ٣٠ ܗܘܝܢ ܠܗܘܠܡ̈ܐ:

٥ ، ١٠ ، ١٥ ، ٢٠ ، ٢٥ .

ܕܟܘܪ ܗܘܠܡ̈ܐ ܕܚܘܝܕܐ ܕܡܢܝܢ̈ܐ ܕܡܥܘܦ̈ܐ ٥ ܘܙܥܘܪ̈ܐ ܡܢ ٣٧. ܟܡܐ ܗܘܠܡ̈ܐ ܐܝܬ ܒܗܕܐ ܚܘܝܕܐ ؟

ܡܫܠܡ ܡܫܠܡܬܐ ܕܚܘܝܕܐ ܐܝܬ ܒܨܘܪܬܐ (١ ـ ٧).

ܨܘܪܬܐ (١ ـ ٧)

ܚܘܝܕܐ ܕܡܢܝܢ̈ܐ ܕܡܥܘܦ̈ܐ ٥ ܘܙܥܘܪ̈ܐ ܡܢ ٣٧

ܚܘܝ ܐ ܗܘܝܐ ܚܘܝܕܐ ܕܡܢܝܢ̈ܐ ܕܡܥܘܦ̈ܐ ٥ ܕܒܝܢ ܒܝܢ ١٠ ، ٤٠ .

ܐܢܐ ١٠	ܡܫܬܘܬܦ ܠـ ܐ ؟	☐	ܐܝܢ	☐	ܠܐ.
ܐܢܐ ٢٥	ܡܫܬܘܬܦ ܠـ ܐ ؟	☐	ܐܝܢ	☐	ܠܐ.
ܐܢܐ ٣٥	ܡܫܬܘܬܦ ܠـ ܐ ؟	☐	ܐܝܢ	☐	ܠܐ.
ܐܢܐ ٤٠	ܡܫܬܘܬܦ ܠـ ܐ ؟	☐	ܐܝܢ	☐	ܠܐ.
ܐܢܐ ٤٥	ܡܫܬܘܬܦ ܠـ ܐ ؟	☐	ܐܝܢ	☐	ܠܐ.

ܬܘܪܓܡܐ ٦

ܨܘܪܬܐ (١ ـ ٨) ܡܚܘܝܐ ܚܘܝܕܐ ܡܢ ܨܘܪ̈ܬܐ ܡܫܪܝܐ ܡܫܬܘܬܦܝܢ ܐ

ܗܕܝܐ ܐ ܒ ܚܕ ܡܢ ܗܠܝܢ ܐܪܒܥ ܨܘܪ̈ܬܐ.

ܡܢܝܢ ܐ ܒ ܡܫܬܘܬܦ ܠܗܕܐ ܚܘܝܕܐ.

ܐܢ ܓ ܕ ܐܝܬ ܡܫܬܘܬܦ ܠܗܕܐ ܚܘܝܕܐ

ܡܢ ܟܬܘܒ ܕܗܘܠܡ̈ܐ ܕܡܫܬܘܬܦܝܢ ܠܚܘܝܕܐ

ܨܘܪܬܐ (١ ـ ٨)

ܕܒܝܬܐ:

ܐ ܒ ، ☐ ، ☐ ،

☐

ܕܘܪܫܐ (١ - ١)

ܚܙܝ : ܟܬܘܒ ܐܣܟܡܐ ܕܟܠ ܡܫܘܚܬܐ ܡܢ ܗܠܝܢ :

١ - ܡܫܘܚܬܐ ܕܦܬܘܪܐ ܕܟܬܒܘܬܐ.

٢ - ܡܫܘܚܬܐ ܕܟܬܠܐ ܕܐܘܪܟܠܝܬܐ.

٣ - ܡܫܘܚܬܐ ܕܠܘܚܐ ܕܬܪܥܐ ܕܒܝܬܐ.

٤ - ܡܫܘܚܬܐ ܕܐܪܥܘܬܐ ܕܡܠܟܬܐ (ܡܬܚ).

٥ - ܡܫܘܚܬܐ ܕܐܪܥܘܬܐ ܕܡܠܟܬܐ (ܕܒܫܐ).

٦ - ܡܫܘܚܬܐ ܕܦܬܘܪܐ ܡܪܒܥܬܐ

٧ - ܡܫܘܚܬܐ ܕܦܬܚܐ ܕܦܪܨܘܦܐ ܡܪܒܥܬܐ.

٨ - ܡܫܘܚܬܐ ܕܐܬܪܘܬܐ ܕܦܬܟܐ ܕܦܪܢܣܐ.

٩ - ܡܫܘܚܬܐ ܕܡܪܒܥܬܐ ܣܛܪܐ ܕܝܠܗ ٤ ، ١١

١٠ - ܡܫܘܚܬܐ ܕܟܪܘܒܐ ܕܡܝܬܪܐ ١٥ .

١١ - ܡܫܘܚܬܐ ܕܐܪܥܐ ܡܦܠܚܬܐ ܠܗ ܡܛܠܬܐ ܕܐܘܪܟܐ ܕܡܝܬܪܐ ١٧٣٢.

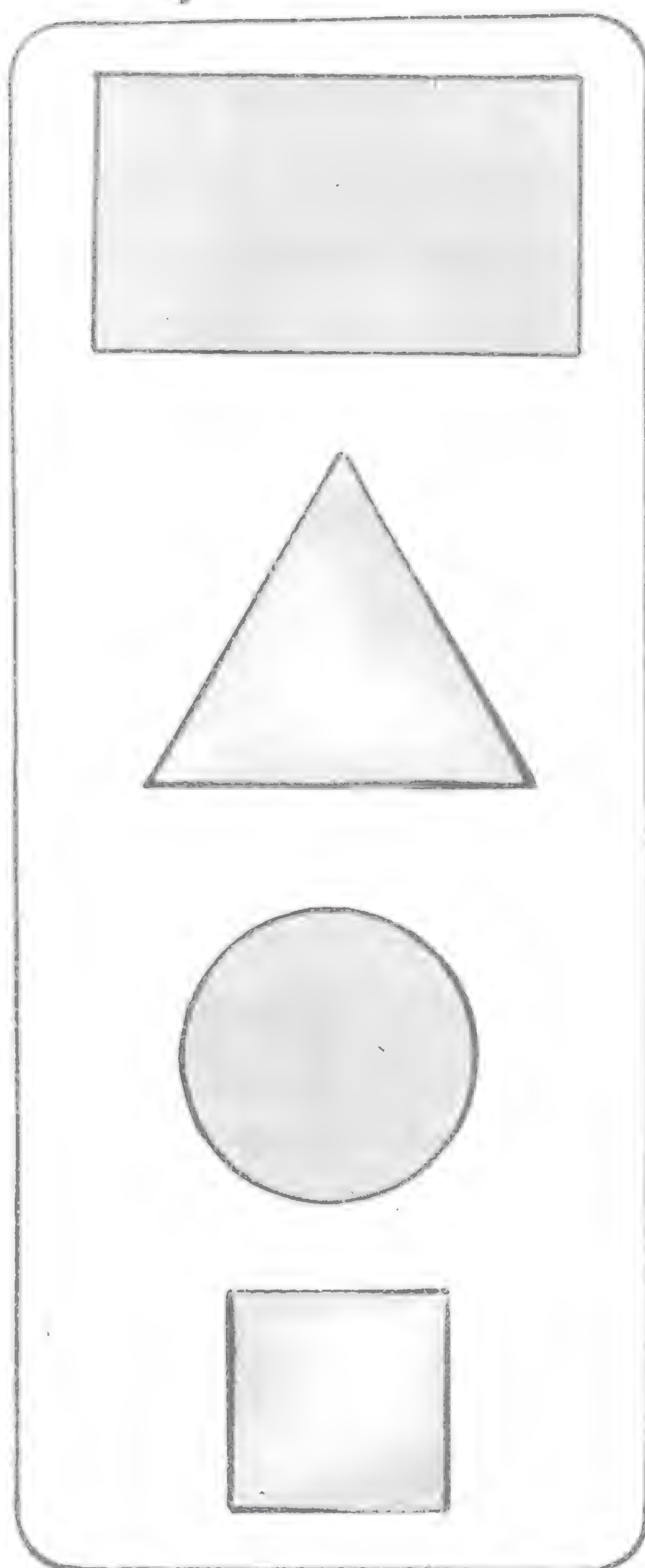
(ܠܡܫܠܡܢܘ : ܡܫܘܚܬܐ ܕܐܪܥܐ ܕܡܝܬܪܐ ١٧٣٢).

١٢ - ܡܫܘܚܬܐ ܕܐܪܥܐ ܕܡܝܬܪܐ ٩٢٢.٧٠٢ .

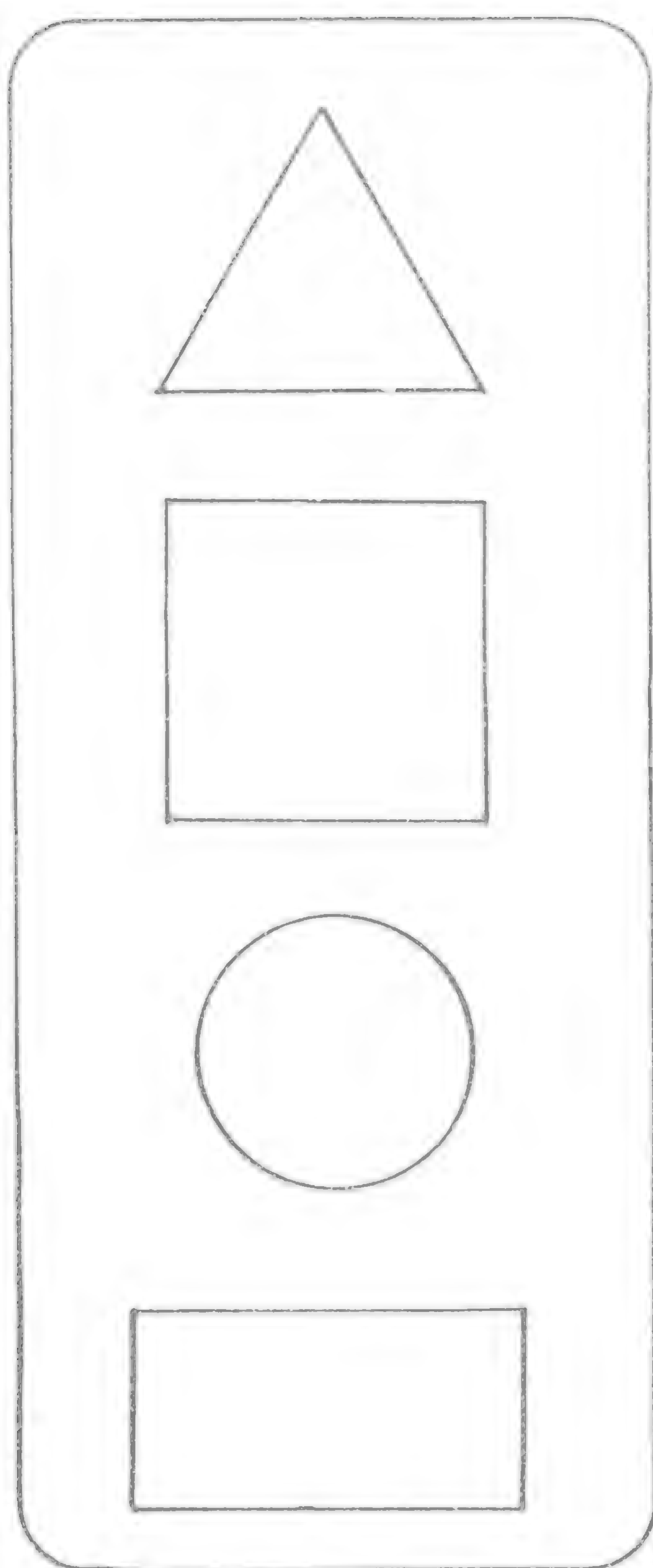
١٣ - ܡܫܘܚܬܐ ܕܟܪܟܐ ܕܡܝܬܪܐ ٣ ܘܦܘܫܐ ܡܢ ٢٠.

ܗܕܐ : ܟܠ ܡܢ ܐܣܟܡ̈ܐ ܕܐܝܬ ܡܫܘܝܐ ܥܡܘܕܐ ܡܢ ܐܣܟܡ̈ܐ ܡܫܘܝܐ ، ܫܘܚܠܦܐ ܒܗܘ
ܡܢܘܢ ܡܬܚܙܝܢܐ ܕܒܕܟܐ ܐܣܟܡ̈ܐ ܠܗ ܚܠܝܦ ܡܢܝܢܐ :

(١)



(٢)



(٣)

ܗܠܵܐ : ܡܲܚܬ (✓) ܩܕܵܡ ܦܬܓ̰ܡܹ̈ܐ ܫܪܝܼܪܹ̈ܐ ܒܡܵܐ ܕܐܵܬܹܐ :

(١) ٥ ܡܚܲܘܝܼܢܵܐ ܠܚܘܼܫܒܵܐ ܕܟܢܘܼܫܝܵܐ ܕܡܢܝܵܢܹ̈ܐ ١٥

(٢) ٧ ܠܐ ܡܚܲܘܝܼܢܵܐ ܠܚܘܼܫܒܵܐ ܕܡܲܦܪܘܼܫܵܐ ܕܡܢܝܵܢܹ̈ܐ ٧.

(٣) ܡ ܡܚܲܘܝܵܢܬܵܐ ܠܚܘܼܫܒܵܐ ܕܬܲܪܥܵܐ ܕܡܸܠܬܵܐ (ܡܕܝܼܢ).

(٤) ܚ ܠܐ ܡܚܲܘܝܵܢܬܵܐ ܠܚܘܼܫܒܵܐ ܕܬܲܪܥܵܐ ܕܡܸܠܬܵܐ (ܚܵܠܵܐ).

(٥) ٢ ܡܚܲܘܝܼܢܵܐ ܠܚܘܼܫܒܵܐ ܕܟܢܘܼܫܝܵܐ ܕܡܢܝܵܢܹ̈ܐ ١٢

(٦) ܐܝܼܢܵܐ ܠܐ ܡܚܲܘܝܼܢܵܐ ܠܚܘܼܫܒܵܐ ܕܢܸܩܒܵܐ ܕܚܕܵܐ ܡܚܲܫܒܬܵܐ.

ܬܪܹܝܢܵܐ : ܡܲܚܬ ܕܡܘܼܬ ܠܣܝܼܡܵܐ (ܠܬܲܪܥܵܐ ܐܵܘ ܠܡܢܝܵܢܵܐ) ܕܚܙܹܐ ܠܟܠ ܦܬܓ̰ܡܵܐ ܗܵܪܝܼܐ:

(١) ☐ ܡܚܲܘܝܼܢܵܐ ܠܚܘܼܫܒܵܐ ܕܟܢܘܼܫܝܵܐ ܕܡܢܝܵܢܹ̈ܐ ٢٤

(٢) ☐ ܡܚܲܘܝܵܢܬܵܐ ܠܚܘܼܫܒܵܐ ܕܬܲܪܥܵܐ ܕܡܸܠܬܵܐ (ܡܥܠܵܐ).

(٣) ☐ ܠܐ ܡܚܲܘܝܼܢܵܐ ܠܚܘܼܫܒܵܐ ܕܡܲܦܪܘܼܫܵܐ ܕܡܢܝܵܢܹ̈ܐ ٥

(٤) ☐ ܡܚܘܝܬ ܠܟܢܘܫܝܐ ܕܡܢܝܢܐ ܙܘܓܢܝܐ ܘܙܥܘܪܐ ܡܢ ١٥

(٥) ☐ ܠܐ ܡܚܘܝܬܐ ܠܟܢܘܫܝܐ ܕܐܬܘܬܐ ܕܡܠܬܐ (ܦܝܫ)

(٦) ☐ ܠܐ ܡܚܘܝܬ ܠܟܢܘܫܝܐ ܕܪܫܡܐ ܕܡܢܝܢܐ ٣٦٧٠٩٥٤

ܦܘܢܝܐ : ܦܫܘܛ ܠܟܢܘܫܝܐ ܕܠܥܠ ܒܚܘܫܒܢܐ

(١) ܟܢܘܫܝܐ ܕܦܠܘܓܐ ܕܡܢܝܢܐ ٢٤

(٢) ܟܢܘܫܝܐ ܕܡܟܦܠܬܐ ܕܡܢܝܢܐ ٥ ܘܙܥܘܪܐ ܡܢ ٣٥

(٣) ܟܢܘܫܝܐ ܕܐܬܘܬܐ ܕܡܠܬܐ (ܢܘܪܐ).

(٤) ܟܢܘܫܝܐ ܕܪܫܡܐ ܕܡܢܝܢܐ ٢٧٠٩٧٢

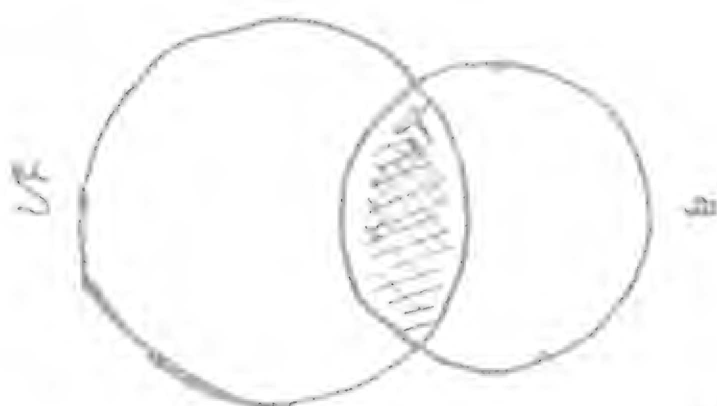
(٥) ܟܢܘܫܝܐ ܕܐܬܘܬܐ ܕܟܬܒܐ ܣܘܪܝܝܐ.

(٦) ܟܢܘܫܝܐ ܕܡܢܝܢܐ ܙܘܓܢܝܐ ܪܒܐ ܡܢ ٥ ܘܙܥܘܪܐ ܡܢ ١٢

١ ـ ٢ ܦܘܠܚܢܐ ܕܟܢܘܫܝܐ

ܐܢ ܗܘܝܢ ܠܢ ܬܪܝܢ ܟܢܘܫܝܐ ܣ ، ܨ ܘܡܫܬܘܬܦܝܢ ܗܘܘ ܒܡܫܘܬܦܘܬܐ ܟܢܘܫܝܐ ܠܗ ܐܝܟ ܨܘܪܬܐ . ܐܝܟ ܕܝܠܗ ܚܙܝ ܨܘܪܬܐ ܡܢ ܬܪܝܢ ܗܕܐ ܨܘܪܬܐ : (١ ـ ٢٩) (١ ـ ٩ ب) .

ܨܘܪܬܐ (١ ـ ٩ ܐ) ܡܚܘܝܐ ܐܝܟ ܕܐܝܬ ܨܘܪܬܐ ܡܫܘܬܦܬܐ ܒܝܢ ܬܪܝܗܘܢ ܟܢܘܫܝܐ ܡܫܘܬܦܐ ܠܗ ܟܢܘܫܝܐ ܡܫܘܬܦܐ



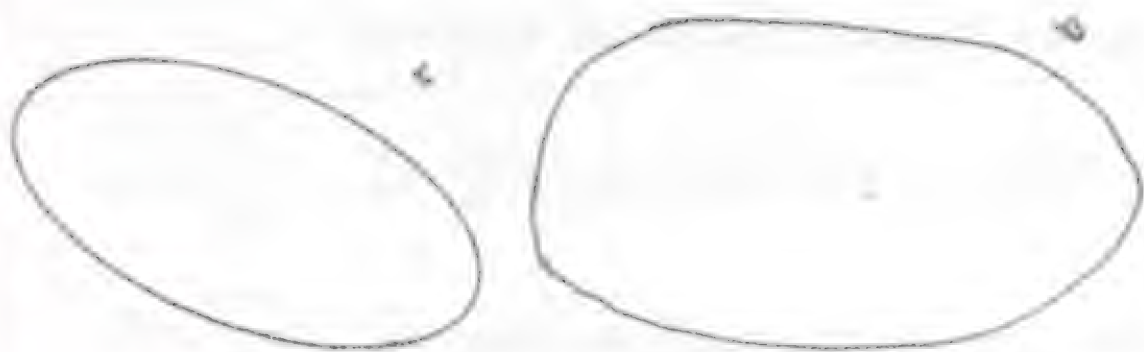
ܨܘܪܬܐ (١ ـ ٢٩)

ܐܝܟ ܨܘܪܬܐ ܡܚܘܝܐ ܟܢܘܫܝܐ ܡܫܘܬܦܘܬܗ :

(ܟܢܘܫܝܐ ܕܡܫܬܘܬܦܘܬܐ)

ܐܘ (ܣ ܡܫܬܘܬܦܬܐ ܨ)

ܘܦܫܛܐ ܒܡܢܝܢܐ ܥܪܘܦܝܐ :



ܣ ∩ ܨ

ܨܘܪܬܐ (١ - ٩ ܒ)

ܨܘܪܬܐ (١ - ٩ ܒ) ܡܚܘܝܐ ܕܠܝܬ ܐܦ ܚܕ ܗܠܡܢܬܐ ܡܫܬܘܬܦܬܐ ܒܝܢ ܟܢܘܫܝܐ ܣ ، ܨ. ܘܟܬܝܒܐ ܒܗܕܐ :

ܣ ∩ ܨ = ܟܢܘܫܝܐ ܣܦܝܩܐ.

ܡܬܠܐ (١)

ܐܢ ܗܘܐ ܣ ، ܨ ܘܟܠܝܠ ܟܢܘܫܝܐ ܕܫܪܟܐ ܗܠܡܢܬܐ ܕܟܢܘܫܝܐ ܕܡܫܬܘܬܦܬܐ:

ܣ = ܟܢܘܫܝܐ ܕܦܠܓܘܬܐ ܕܡܢܝܢܐ ١٢

ܨ = ܟܢܘܫܝܐ ܕܡܢܝܢܐ ܡܨܥܝܐ ܒܝܢ ٢ ، ٨

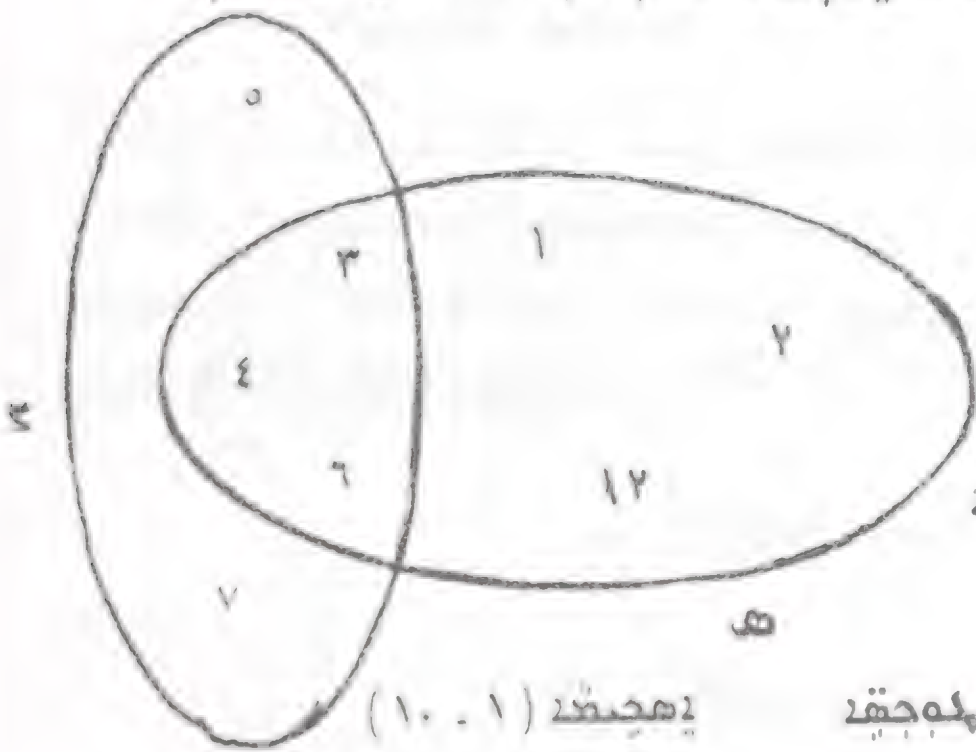
ܫܪܝܐ :

ܗܠܡܢܬܐ ܕܟܢܘܫܝܐ ܣ ܐܝܢܐ ١ ، ٢ ، ٣ ، ٤ ، ٦ ، ١٢

ܗܠܡܢܬܐ ܕܟܢܘܫܝܐ ܨ ܐܝܢܐ ٣ ، ٤ ، ٥ ، ٦ ، ٧

ܨܘܪܬܐ (١ - ١٠) ܡܚܘܝܬܐ ܕܠܝܬ ܠܗܘܢ ܟܢܘܫܝܐ ܣ ، ܨ ܡܫܬܘܬܦܐ

ܠܟܠܝܗܝ ܕܠܝܬ ܕ :



ܨܘܪܬܐ (١ - ١٠)

ܣ ∩ ܨ ܫܪܝܐ

ܗܠܡܢܬܐ ٣ ، ٤ ، ٦

ܘܐܢ ܗܘܐ ܟܢܘܫܝܐ ܦܫܝܛܐ ܡܫܬܠܡܐ

ܒܨܘܪܬܐ (١ - ١٠)

ܐܝܬ ܟܢܘܫܝܐ ܐܚܪܢܐ ܫܪܝܐ ܠܟܠܗܘܢ ܗܠܡܢܬܐ

ܕܐܝܬ ܒܟܠ ܚܕ ܣ ، ܨ. ܡܬܩܪܐ ܗܢܐ

ܟܢܘܫܝܐ (ܟܢܘܫܝܐ ܕܚܘܝܕܐ) ܐܘ (ܣ ܚܘܝܕܐ ܨ)

، ܘܦܫܛܐ ܒܡܢܝܢܐ ܥܪܘܦܝܐ : ܣ ∪ ܨ

ܟ ܗ

ܗ ∪ ܟ

ܟ ܗ

ܗ ∪ ܟ

ܟ ܗ

ܟܢܘܫܬܐ ܣܦܝܩܬܐ ܗ ∩ ܟ

ܟ ܗ

ܗ ∩ ܟ

ܡܘܬܠܐ ٢

ܢܗܘܐ ܗ ، ܟ ܕܡܒܝܢܐ ܠܗ ܡܘܬܠܐ (١) ܠܗ ܠܥܠ ܨܘܪܬܐ، ܘܡܢ ܒܬܪ ܟܢܘܫܬܐ ܕܚܘܝܕܐ.

ܦܘܫܩܐ :

ܐܣܛܘܟܣܐ ܕ ܗ ܗܢܘܢ ١، ٢، ٣، ٤، ٦، ١٢

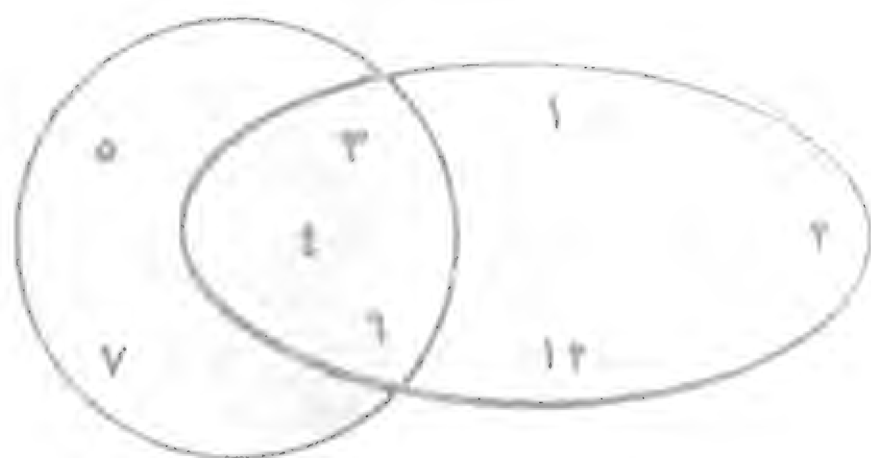
ܐܣܛܘܟܣܐ ܕ ܟ ܗܢܘܢ ٣، ٤، ٥، ٦، ٧.

ܨܘܪܬܐ (١ ـ ١١) ܡܚܘܝܐ ܠܬܪܘܝܗܝ

ܗ ، ܟ ܟܢܘܫܝܬܐ.

ܗ ∪ ܟ ܗܘܝܐ ܐܣܛܘܟܣܐ :

١، ٢، ٣، ٤، ٦، ١٢، ٥، ٧



ܨܘܪܬܐ (١ ـ ١١)

ܘܢܚܘܐ ܟܢܘܫܬܐ ܕܚܘܝܕܐ ܒܓܘܐ ܡܛܠܠܬܐ ܠܗ ܨܘܪܬܐ (١ ـ ١١)

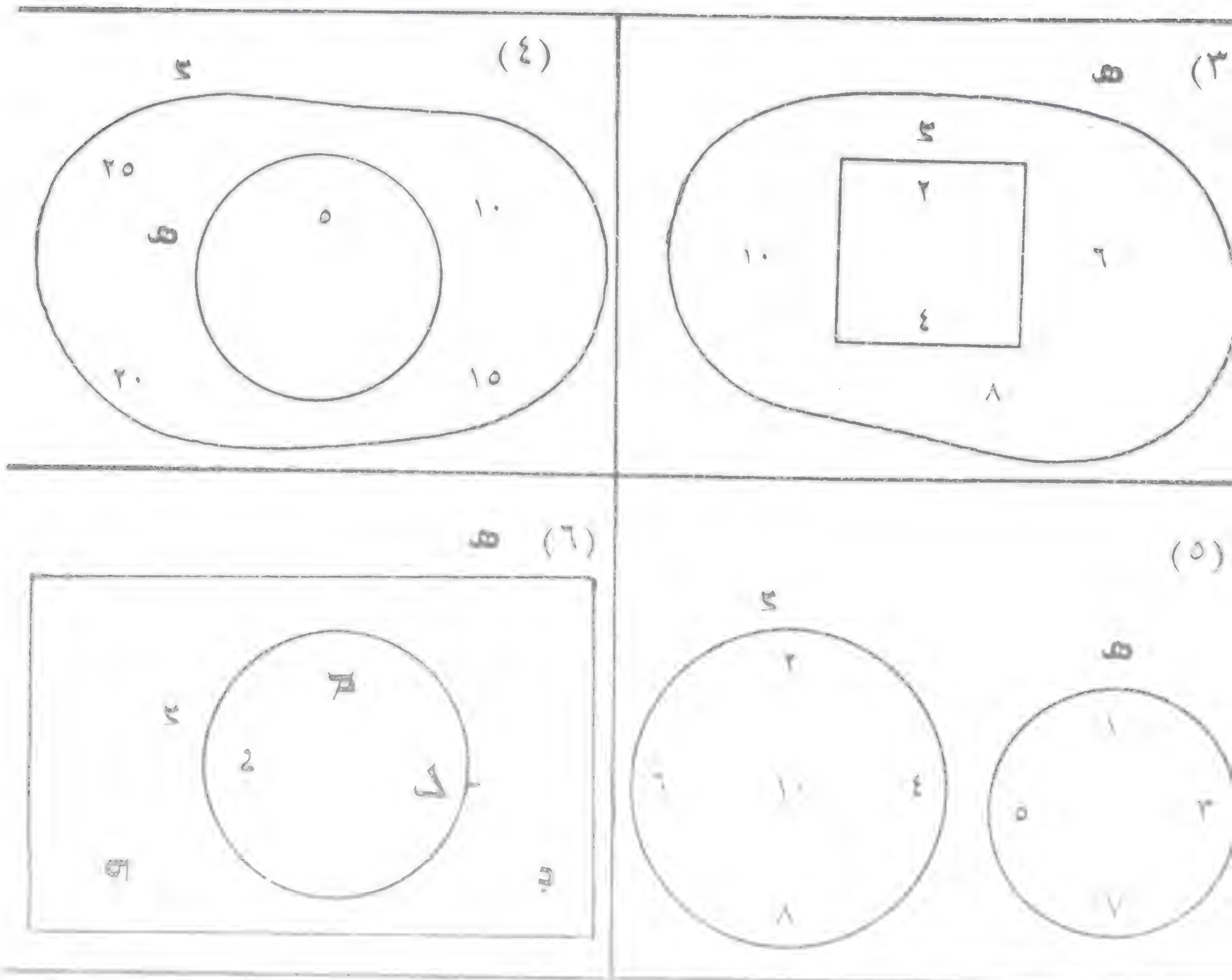
ܕܘܪ̈ܫܐ (١ - ٢)

ܬܢ : ܒܟܠܚܕ ܠܕܝܐܓܪ̈ܡܐ ܫ ، ܘܕܝܐܓܪ̈ܡܐ ܟ ، ܘܕܝܐܓܪ̈ܡܐ ܫ ܡܢ ܟ ، ܘܟܬܘܒ ܫܡܐ ܕܦܪ̈ܫܐ ܕܫܘܬܦܐ ܫ $\cap$ ܟ ܟܠ ܚܕ ܡܢ ܕܐܟܐ :

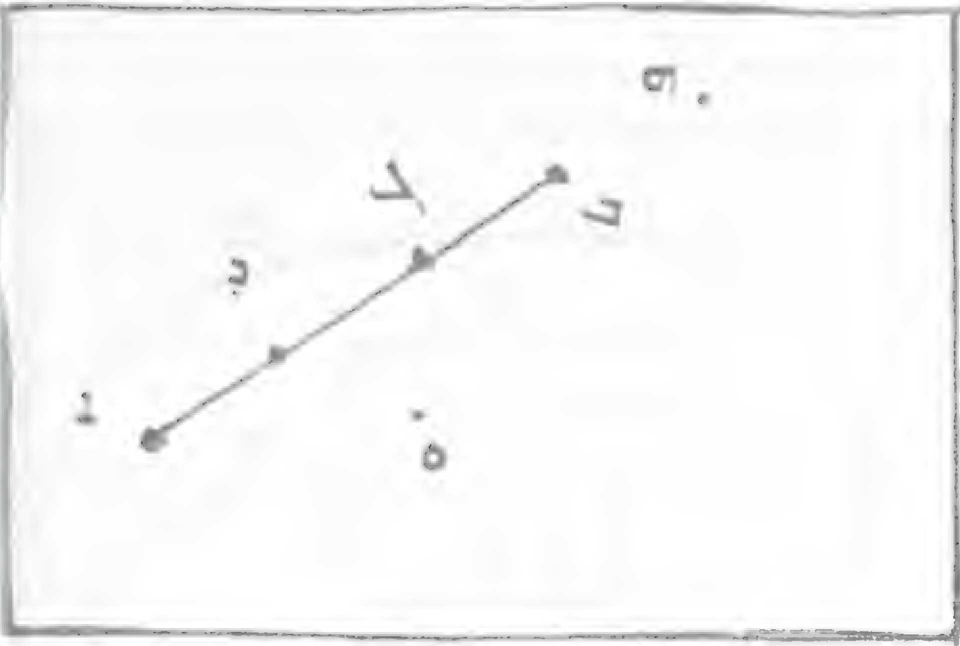
(١) (٢)

(٣) (٤)

(١) (٢)


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(٤)
ﺳ
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ﻫ
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٢٠
١٥
(٥)
ﺳ
ﻫ
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(٦)
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ﺳ

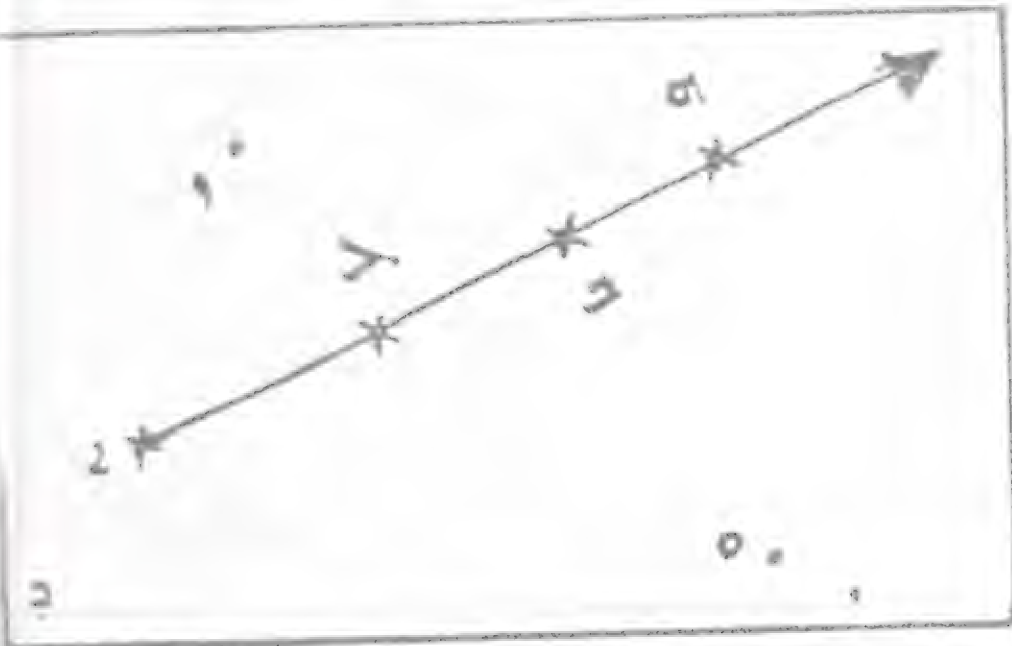
١ - ٣ ܢܘܼܗܵܕܹ̈ܐ ܡܫܲܕ̈ܪܹܐ



ܒܚܙܝܬܐ (١ - ١٢ ܐ) ܠܡܩܛܥܐ
ܚܕܝܐ ܕܗܘܝܘ $\overline{ܐܒ}$ ܐܘ $\overline{ܒܐ}$
$\overline{ܐܒ}$ ܟܢܘܫܝܐ ܡܢ ܢܘܩܙ̈ܐ:
ܐ ܡܬܚܫܒܐ ܠ $\overline{ܐܒ}$
، ܒ ܡܬܚܫܒܐ ܠ $\overline{ܐܒ}$
، ܓ ܡܬܚܫܒܐ ܠ $\overline{ܐܒ}$
ܒܪܡ ܗ ܠܐ ܡܬܚܫܒܐ ܠ $\overline{ܐܒ}$.

(١ - ١٢ ܐ) (ܡܩܛܥܐ ܚܕܝܐ)

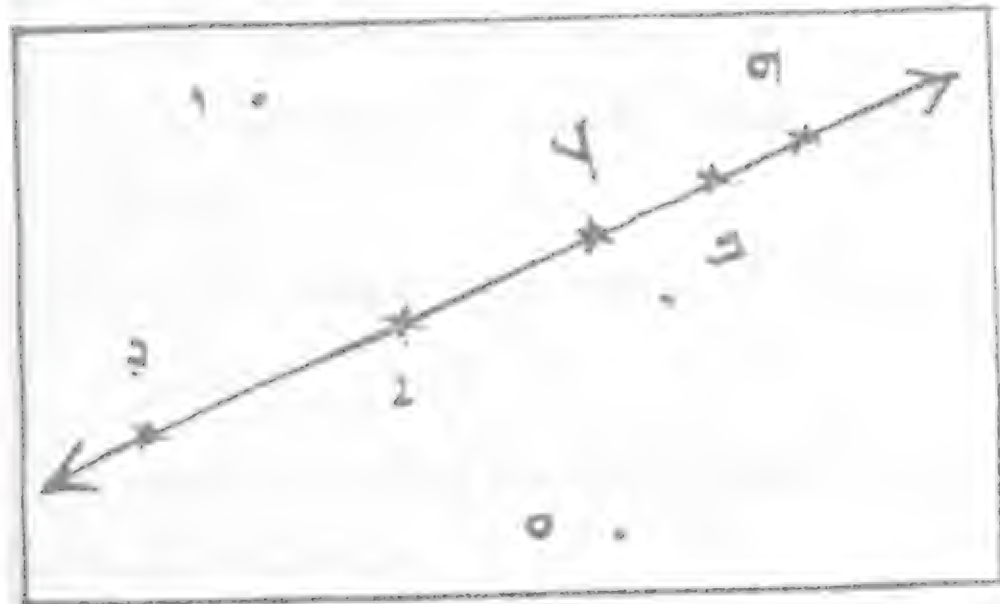
ܒܚܙܝ ܗܕܐ ܢܘܩܙ̈ܐ ܚܕܐ ܡܬܚܫܒܐ ܘܚܕܐ ܠܐ ܡܬܚܫܒܐ ܠ $\overline{ܐܒ}$.



ܒܚܙܝܬܐ (١ - ١٢ ܒ) ܠܙܘܗܪܐ
ܕܗܘܝܘ $\overleftarrow{ܐܒ}$ ܐܘ $\overleftarrow{ܐܓ}$ ܐܘ $\overleftarrow{ܐܗ}$.
$\overleftarrow{ܐܒ}$ ܟܢܘܫܝܐ ܡܢ ܢܘܩܙ̈ܐ :
ܐ ܡܬܚܫܒܐ ܠ $\overleftarrow{ܐܒ}$
ܓ ܡܬܚܫܒܐ ܠ $\overleftarrow{ܐܒ}$
ܒܪܡ ܘ ܠܐ ܡܬܚܫܒܐ ܠ $\overleftarrow{ܐܒ}$.

(١ - ١٢ ܒ) (ܙܘܗܪܐ)

ܒܚܙܝ ܗܕܐ ܢܘܩܙ̈ܐ ܟܠܗܘܢ ܡܢ ܐ ، ܓ ܡܬܚܫܒܐ ܥܠ ܚܕܐ ܡܢܝܘܬܐ ܐ $\overleftarrow{ܒ}$ ، ܘܒܚܙܝ ܗܕܐ ܢܘܩܙ̈ܐ ܟܠܗܘܢ ܡܢ ܘ ܠܐ ܡܬܚܫܒܝ ܠ $\overleftarrow{ܐܒ}$.



ܒܚܙܝܬܐ (١ - ١٢ ܓ) ܠܚܕܝܐ ܕܗܘܝܘ $\overleftrightarrow{ܐܒ}$
ܐܘ $\overleftrightarrow{ܒܐ}$ ܐܘ $\overleftrightarrow{ܓܕ}$ ܐܘ $\overleftrightarrow{ܓܗ}$ ... ܘܫܪܟܐ.
$\overleftrightarrow{ܐܒ}$ ܟܢܘܫܝܐ ܡܢ ܢܘܩܙ̈ܐ :
ܐ ܡܬܚܫܒܐ ܠ $\overleftrightarrow{ܐܒ}$

(١ - ١٢ ܓ) (ܚܕܝܐ)

ܕ ܡܦܬܚܢܬܐ ܠܐ ܐ ܒ

ܝܗܒ ܘ ܟܠ ܡܦܬܚܢܬܐ ܠܐ ܐ ܒ

ܕܚܘܕ ܢܘܩܙܬܐ ܕܡܦܬܚܢܬܐ ܘܐܝܟܢ ܟܠ ܡܦܬܚܢܬܐ ܠܐ ܐ ܒ ܥܒܘܪ ܡܢ ܢܘܩܙܬܐ ܕܟܠܗ ܕܡܫܚܬܐ (١ - ١٢ ܓ).

ܕܡܫܚܬܐ (١ - ١٢ ܕ) ܠܙܘܝܬܐ

ܕܙܘܝܬ ܒ ܐ ܓ ܘܐ ܓ ܐ ܒ

ܒ ܐ ܓ ܥܒܘܪܐ ܡܢ ܢܘܩܙܬܐ:

ܐ ܡܦܬܚܢܬܐ ܠܐ ܒ ܐ ܓ

ܒ ܡܦܬܚܢܬܐ ܠܐ ܒ ܐ ܓ

ܓ ܡܦܬܚܢܬܐ ܠܐ ܒ ܐ ܓ

ܝܗܒ ܗ ܟܠ ܡܦܬܚܢܬܐ ܠܐ ܒ ܐ ܓ

ܕܚܘܕ ܢܘܩܙܬܐ ܡܦܬܚܢܬܐ ܘܐܝܟܢ ܟܠ ܡܦܬܚܢܬܐ ܠܐ ܒ ܐ ܓ (١ - ١٢ ܕ) (ܙܘܝܬܐ)

ܕܚܘܕ ܕܝ ܙܘܝܬܐ ܝܠܗ ܚܘܒܪܐ ܕܬܪܝܢ ܙܪܒܝܬܐ ܕܫܘܠܡܗ ܢܘܩܙܐ ܕܥܘܕܪܐ ܥܠܝܗ).

ܠܙܘܝܬ ܒ ܐ ܓ ܥܠܝܗܠܝܗ ܡܢ ܚܘܒܪܐ ܕܬܪܝܢ ܙܪܒܝܬܐ ܐ ܒ ، ܐ ܓ

ܗܝܐ ܘܕܝܢ ܒ ܐ ܓ = ܐ ܒ ⋃ ܐ ܓ

ܚܘܫܒܐ (١)

ܕܡܫܚܬܐ ܕܠܘܩܒܠ ܡܫܘܚܬܐ ܗܕܐ ܫܩܠܝ

ܗܕܝܢ ܐ ܒ ، ܓ ܕ.

ܢܩܘܫܬܐ ܘ ܡܦܬܚܢܬܐ ܠܐ ܐ ܒ،

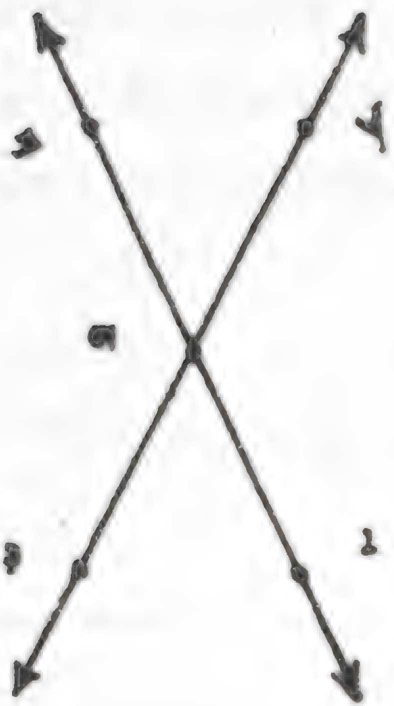
ܘܗܕܐ ܢܩܘܫܬܐ ܘ ܡܦܬܚܢܬܐ ܠܐ ܓ ܕ.

ܐܝܟܐ ܐܝܬ ܢܘܩܙܬܐ ܐܚܪܬܐ ܥܒܘܪܐ ܡܢ ܘ ܡܦܬܚܢܬܐ ܠܟܠ ܡܢ ܐ ܒ ، ܓ ܕ ؟

ܡܢܐ ܕܡܫܘܚܬܐ ܠܗ ܥܒܘܪܐ : ܐ ܒ ܡܠܘܬܐ ܓ ܕ ؟ ܕܚܘܕܝܬܐ.

ܕܚܘܕ ܕܡܫܘܚܬܐ ܕܥܒܘܪܐ : ܐ ܘ ⋂ ܒ ܘ

ܕܚܘܕ ܕܡܫܘܚܬܐ ܕܥܒܘܪܐ : ܘ ܕ ⋂ ܒ ܘ.



ܦܫܘܛ̈ܐ ܕܡܬܦܓܥܝܢ ܒܚܕ ܢܘܩܙܐ :

$\overleftrightarrow{\text{ܐܒ}}$ ، $\overleftrightarrow{\text{ܓܕ}}$. ܗܢܘܢ ܦܫܘܛ̈ܐ ܡܢ ܚܕ ܦܘܪ̈ܣܐ:

$\overleftarrow{\text{ܗܒ}}$ ، $\overleftarrow{\text{ܒܓ}}$ ܗܢܘܢ ܦܘܪ̈ܣܐ.

- ܫܡܝܗ ܗܢܘܢ ܦܘܪ̈ܣܐ ܐܚܪ̈ܢܐ ܠܗ ܦܫܘܛ̈ܐ.

ܚܘܫܒܬܐ : $\overleftrightarrow{\text{ܐܒ}} \cap \overleftrightarrow{\text{ܓܕ}}$ ܡܥܛܐ ܚܕ ܦܣܘܩܝܬܐ ܕܝܠܗ ܢܘܩܙܐ ܗ.

- ܕܓܘܪ ܚܘܫܒ̈ܢܐ ܕܗܠ ܡܢ :

ܚܘܫܒܬܐ : $\overline{\text{ܐܒ}}$ ܡܩܛܥܐ $\overline{\text{ܓܕ}}$

ܚܘܫܒܬܐ : $\overleftarrow{\text{ܗܓ}}$ ܡܩܛܥܐ $\overleftrightarrow{\text{ܐܒ}}$

ܚܘܫܒܬܐ : $\overline{\text{ܐܒ}}$ ܡܩܛܥܐ $\overleftrightarrow{\text{ܓܕ}}$

$\overleftarrow{\text{ܗܓ}} \cup \overleftarrow{\text{ܗܒ}} = \widehat{\text{ܓܗܒ}}$ (ܠܡܢܐ ؟)

- ܡܠܝ : $\overleftarrow{\text{ܗܐ}} \cup \overleftarrow{\text{ܗܕ}} =$ ☐

$\overleftarrow{\text{ܗܒ}} \cup \overleftarrow{\text{ܗܕ}} =$ ☐

$\overleftarrow{\text{ܗܓ}} \cup \overleftarrow{\text{ܗܐ}} =$ ☐

$\overline{\text{ܐܒ}} \cap \overleftrightarrow{\text{ܐܒ}}$ ܒܓܘ $\overline{\text{ܐܒ}}$ (ܠܡܢܐ ؟)

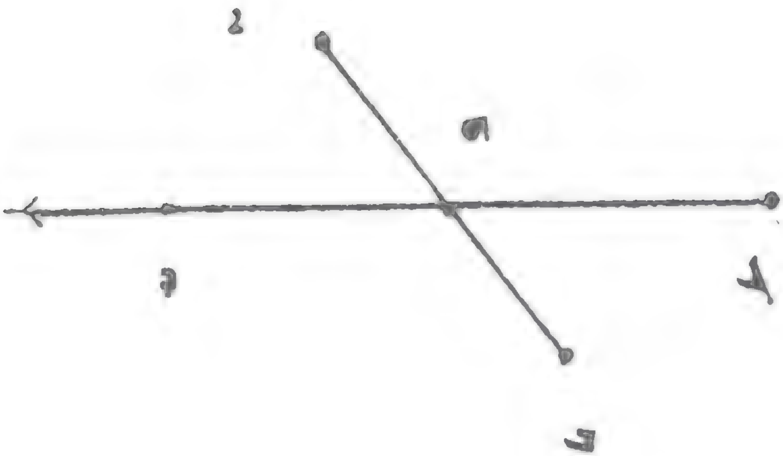
- ܡܠܝ : $\overline{\text{ܓܕ}} \cap \overleftrightarrow{\text{ܓܕ}} =$ ☐

$\overline{\text{ܗܓ}} \cap \overleftarrow{\text{ܗܓ}} =$ ☐

$\overleftarrow{\text{ܗܐ}} \cap \overleftrightarrow{\text{ܐܒ}} =$ ☐

ܬܘܪ̈ܓܡܐ (١ - ٢)

ܚܕ : ܣܝܡ ✓ ܩܕܡ ܦܬܓܡ̈ܐ ܫܪܝܪ̈ܐ ، × ܠܦܬܓܡ̈ܐ ܠܐ ܫܪܝܪ̈ܐ :



(١) ܕ ܡܬܚܫܒܐ ܠ $\overline{\text{ܐܒ}}$

(٢) ܗ ܡܬܚܫܒܐ ܠ $\overline{\text{ܓܕ}}$

(٣) ܐ ܡܬܚܫܒܐ ܠ $\overleftarrow{\text{ܗܕ}}$

(٤) ܓ ܡܬܚܫܒܐ ܠ $\overleftarrow{\text{ܗܕ}}$

(٥) ܗ ܡܬܚܫܒܐ ܠ ܓܕ ܐܒ

(٦) $\overline{\text{ܒܗ}} \cup \overline{\text{ܗܐ}} = \overline{\text{ܐܒ}}$

(٧) $\overline{\text{ܓܗ}} \cup \overline{\text{ܗܕ}} = \overleftarrow{\text{ܓܕ}}$

(٨) ܐ ܠܐ ܡܬܚܫܒܐ ܠ $\overleftrightarrow{\text{ܓܕ}}$

ܬܪܝܢ : ܡܠܝ ܒܣܝܡ̈ܢܐ ܘܩܝܡ ܕܡ̈ܠܐ ܠܦܬܓܡ̈ܐ ܫܪܝܪ̈ܐ :

(١) $\overline{\text{ܐܒ}} \cap \overline{\text{ܐܕ}}$ ܗܘܝܐ ܚܕ ܢܘܩܙܬܐ ܕܫܡܗ ☐ .

(٢) ☐ ܡܬܚܫܒܐ ܠ $\overline{\text{ܐܒ}} \cap \overline{\text{ܒܓ}}$

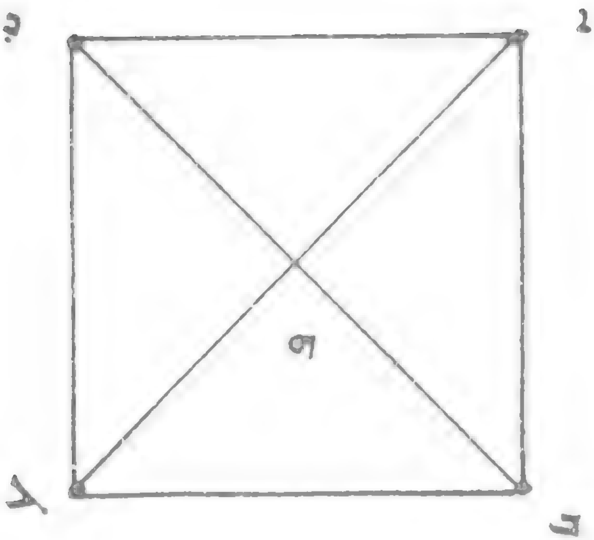
(٣) $\overleftarrow{\text{ܓܒ}} \cup \overleftarrow{\text{ܓܕ}}$ = ☐

(٤) ☐ ܡܬܚܫܒܐ ܠ $\overline{\text{ܐܒ}} \cap \overline{\text{ܒܓ}}$

(٥) ☐ ܡܬܚܫܒܐ ܠ $\overline{\text{ܐܓ}} \cap \overline{\text{ܒܕ}}$

(٦) ܕ$\hat{\text{ܓ}}$ܒ = $\overleftarrow{\text{ܓܒ}} \cup$ ☐

(٧) ☐ ܡܬܚܫܒܐ ܠܙܘܝܬܐ ܕ$\hat{\text{ܓ}}$ܒ



ܦܫܘܛܐ ܘܪ̈ܡܐ   ܡܝ̈ܢܐ ܘܡܕ̈ܒܪܐ

ܡܫܘܚܬܐ ܐܪܥܗ ܕܓܙܪܬܐ ܥܪ̈ܒܝܬܐ ܕܐܪ̈ܒܥܐ ܦܢܝ̈ܬܐ ܕܥܠܡܐ ܥܪ̈ܒܝܐ ܟܠܗܘܢ
ܗ ٢٠٠٠ ܩܝܠܘ ٥٥٦٤٠٠٠٠ ܡܝ̈ܠܐ.

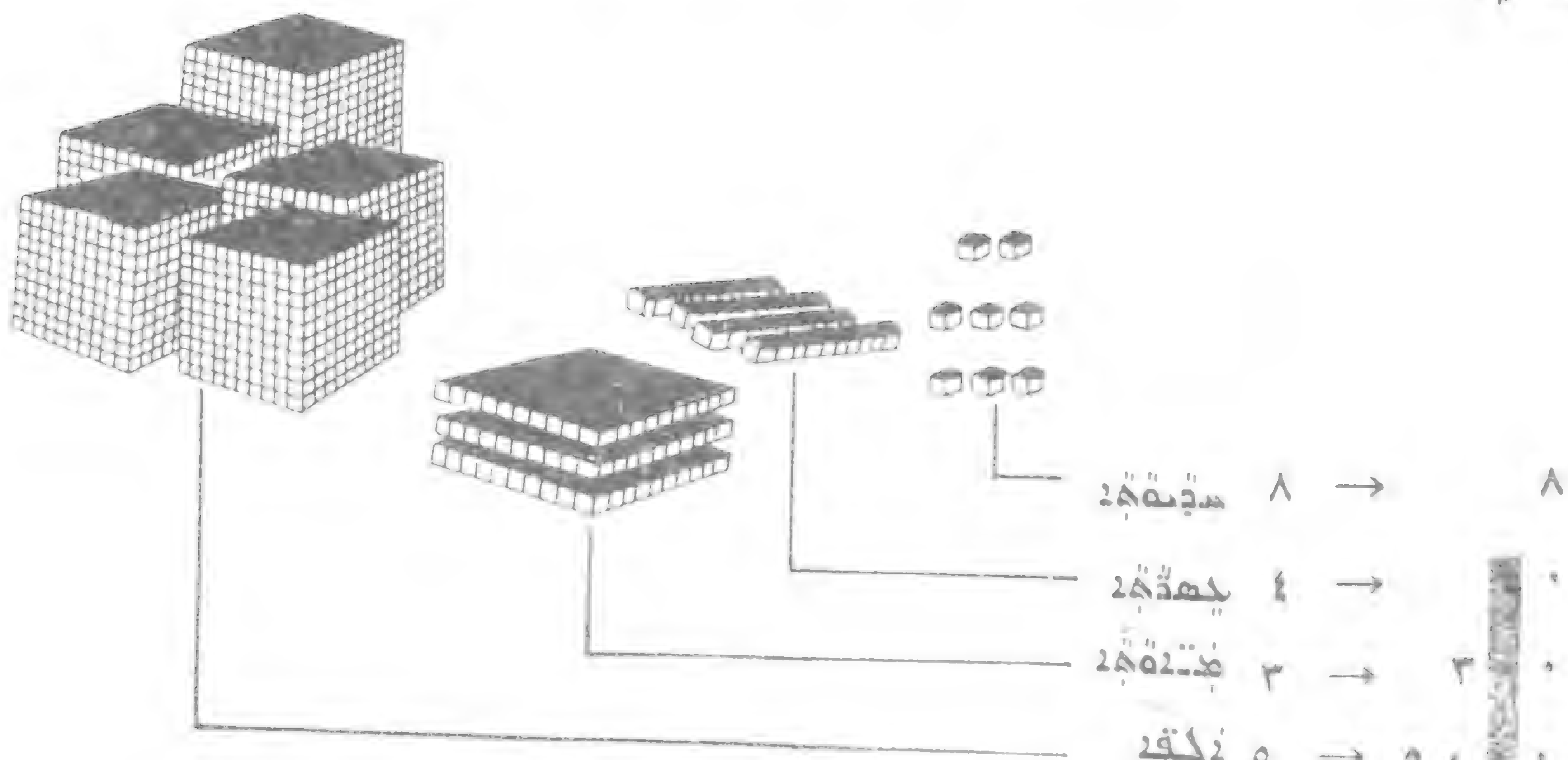
ܦܣܘܩܐ ܬܪܝܢܐ

ܡܢܝܢܐ ܘܡܢܝܘܬܐ

٢ ـ ١ ܡܢܝܢܐ ܘܡܢܝܘܬܐ ܥܠ ܐܪܒܥܐ ܕܘܟܝܬܐ.

ܝܕܝܥܐ ܕܐܝܬ ܐܪܒܥ ܕܘܟܝܬܐ ܒܡܢܝܢܐ : ܐܠܦܐ ܘܡܐܘܬܐ ܘܥܣܪܝܬܐ ܘܚܕܝܐ. ܗܢܐ ܡܢܝܢܐ ܐܝܬܘ ٥٣٤٨ ܘܡܬܦܪܫܐ ܐܝܬܘ ܡܢ ܐܪܒܥܐ ܕܘܟܝܬܐ ܕܗܘܢ :

٨ ܚܕܘܟܬܐ ܕܚܕܝܐ ,٤ ܚܕܘܟܬܐ ܕܥܣܪܝܬܐ, ٣ ܚܕܘܟܬܐ ܕܡܐܘܬܐ, ٥ ܚܕܘܟܬܐ ܕܚܕܝܐ ܕܐܠܦܐ.



ܐܠܦܐ	ܚܕܝܘܬܐ		
ܚܕܝܐ	ܡܐܘܬܐ	ܥܣܪܝܬܐ	ܚܕܝܐ
٥	٣	٤	٨

ܟܘܢܫܐ ܗܢܐ ܟܬܒܝܢܢ :

$$٥٠٠٠ + ٣٠٠ + ٤٠ + ٨ = ٥٣٤٨$$

ܘܦܘܫܩܐ ܡܢܝܢܐ :

ܚܡܫܐ ܡܠܝܘܢܐ ܘܬܠܬܡܐܐ ܘܐܪܒܥܝܢ ܘܫܬܐ ܐܠܦܐ ܘܡܐܐ ܘܫܒܥܝܢܘܬܪܝܢ ܟܬܝܒܝܢ ܗܟܢ :

٥٣٤٦١٧٢ .

ܒܗܢܐ ܕܡܢܝܢܐ ܐܝܬ ܠܗ ٧ ܫܘܦܝܢ ܐܝܟ ١ ، ٢ ، ٣ ، ٤ ، ٥ ، ٦ ، ٧ ܘܟܠܚܕ ܡܢܗܘܢ ܕܟܠ ܚܕ ܠܗ ܫܘܦܐ.

ܡܠܝܘܢܐ	ܐܠܦܐ			ܚܕܝܘܬܐ		
ܚܕܝܬܐ	ܡܐܝܬܐ	ܥܣܪܝܬܐ	ܚܕܝܬܐ	ܡܐܝܬܐ	ܥܣܪܝܬܐ	ܚܕܝܬܐ
٥	٣	٤	٦	١	٧	٢

ܘܬܪܝܢ ܚܕܝܘܬܐ

ܫܒܥܝܢ ܥܣܪܝܬܐ →

ܡܐܐ →

ܫܬܐ ܐܠܦܐ →

ܐܪܒܥܝܢ ܐܠܦܐ →

ܬܠܬܡܐܐ ܐܠܦܐ

ܚܡܫܐ ܡܠܝܘܢܐ

ܚܘܒܪܐ ٥ ٣ ٤ ٦ ١ ٧ ٢

ܟܘܬ ܗܕܐ ܟܬܝܒܬܐ :

٥٣٤٦١٧٢ = ٢ + ٧٠ + ١٠٠ + ٦٠٠٠ + ٤٠٠٠٠ + ٣٠٠٠٠٠ + ٥٠٠٠٠٠٠

ܟܠ ܪܫܡܐ ܡܢ ܪ̈ܫܡܐ ܕܡܢܝ̈ܢܐ ܓܘ ܡܢܝܢܘܬܗ ܟܡܝܘܬܐ ܐܝܟ ܕܡܚܘܐ ܠܗ
ܕܘܟܬܐ ܕܪ̈ܘܬܐ ܡܢܝ̈ܢܐ، ܗܐ ܠܒܘܫܐ،

ܚܙܘܝ ܡܢܝ̈ܢܐ ٥٣٤٦١٧٧ :

ܒܟܡܝܘܬܐ ܕܪ̈ܫܡܐ ܡܢܝ̈ܢ : ١ ، ٢ ، ٣ ، ٤ ، ٥ ، ٦ ، ٧

ܘܟܡܝܘܬܐ ܕܡܕܒܪܢܘܬܐ ܕܪܫܡܐ ١ ܝܠܗ ١٠٠

ܘܟܡܝܘܬܐ ܕܡܕܒܪܢܘܬܐ ܕܪܫܡܐ ٢ ܝܠܗ ٢

ܘܟܡܝܘܬܐ ܕܡܕܒܪܢܘܬܐ ܕܪܫܡܐ ٣ ܝܠܗ ٣٠٠ ٠٠٠ .... ܘܗܟܕܐ.

ܕܘܓܡܐ (١ - ٢)

ܚܕ : ܦܫܘܩ ܗܐ ܕܪܬܐ :

(١) ٨ ٣٤٥ ٦٧٩ = ٩ + ٧٠ + ٦٠٠ + ٥٠٠٠ + ٤٠ ٠٠٠ + [ ]
+ ٨ ٠٠٠ ٠٠٠

(٢) [ ]٣٢١ ٩ ٤٥ = ١ + ٢٠ + ٣٠٠ + ٧٠٠٠ + ٥٠ ٠٠٠ + ٤٠٠ ٠٠٠
+ ٩ ٠٠٠ ٠٠٠

(٣) ٧[ ]٤٨ ٢١٩ = [ ] + [ ] + ٢٠٠ + [ ] + ٤٠ ٠٠٠
+ ٧٠٠ ٠٠٠ + [ ]

(٤) [ ]١٥ ٠٠٢ = ٢ + ٥٠٠٠ + [ ] + ٤٠٠ ٠٠٠ + ٥ ٠٠٠ ٠٠٠

(٥) ٤ + ١٠ + ٣٠٠ + ٧ ٠٠٠ + ٢٠ ٠٠٠ + ٩٠٠ ٠٠٠ = [ ]

(٦) ٣ + ٥٠ + ١٠٠ + ٨٠ ٠٠٠ + ٦٠٠ ٠٠٠ + ١ ٠٠٠ ٠٠٠ = [ ]

(٧) ٤ ٠٠٠ + ٩٠ ٠٠٠ + ١٠٠ ٠٠٠ + ٧ ٠٠٠ ٠٠٠ = [ ]

(٨) ܬܠܬܡܐܐ ܐܠܦ̈ܐ ܘܫܒܥܡܐܐ ܘܬܪܬܝܢ ܘܫܬܝܢ = [ ]

(٩) ٧٥١ ܐܠܦ̈ܐ ܘ ٤ ܡܐܐ̈ ܘ ٢٨ = [ ]

(١٠) ٥ ܡܠܝܘܢ̈ܐ ܘ ٧٠٠ ܐܠܦ̈ܐ ܘ ٣ ܡܐܘ̈ܬܐ ܘ ٤ = [ ]

ܗܫܐ : ܟܬܘܒ ܫܡܐ ܕܡܢܝܢ̈ܐ ܘܚܘܝ ܡܢܝܢ̈ܐ ܕܐܣܛܘܟܣ̈ܐ ܕܟܘܢܫܬܐ ܕܪܫܡܐ

(١١) ١٧٦ ٥٤٢   (١٢) ٧ ٣٤٥ ٢١٠   (١٣) ٧٣١ ٥٢١

(١٤) ٢٢١ ٥٠٠   (١٥) ٢ ٢٢١ ٣٢١   (١٦) ١ ٠٠٠ ٠٠٠

ܗܫܐ: ܟܬܘܒ ܡܢܝܢܐ ܕܡܘܬܒ̈ܐ ܕܪܫܡ̈ܐ ܕܐܝܬ ܚܘܬܗ ܣܪܛܐ

(١٧) ٣٧٤١٥   (١٨) ٩٥٦ ٧١٢

(١٩) ٥ ٠٠٠ ٣٢٨   (٢٠) ١ ٢٩٤ ٦٥٣

(٢١) ٦ ٧٨٠ ٠٤٥   (٢٢) ٩ ٧٦٥ ٢١٤

ܫܘܐܠܐ : ܡܠܝ ܠܣܘܪܓܕܐ ܕܐܬܐ ܒܬܪ ܕܩܪܝܬ ܩܕܡ ܠܫܘܐܠ̈ܐ

ܣܘܪܓܕܐ ܕܐܬܐ ܡܚܘܐ ܡܢܝܢܐ ܕܡܫܬܡܠܝܢܘܬܐ ܕܐܘܟܠܘܣܐ ܡܢ ܡܕܝܢ̈ܬܐ ܕܐܬܪ̈ܘܬܐ ܕܥܠܡܐ ܒܫܢܬܐ ١٩٨٣ ܡ.

ܐܬܪܐ	ܡܢܝܢܘܬܐ ܕܐܘܟܠܘܣܐ ܒܫܢܬܐ	
	ܪܫܡܐ ܕܡܢܝܢ̈ܐ	ܫܡܐ ܕܡܢܝܢ̈ܐ
ܥܘܡܐܢ	١ ٠٩٠ ٠٠٠	
ܓܝܒܘܬܝ		ܬܪܬܝܢ ܘܚܕ ܐܠܦ̈ܐ
ܣܘܡܠܝܐ	٤ ٩٢٠ ٠٠٠	
ܟܘܝܬ		ܐܪܒܥܡܐܐ ܘܫܬܝܢ ܐܠܦ̈ܐ
ܒܚܪܝܢ	٣٧٠ ٠٠٠	
ܩܛܪ	٢٨٠ ٠٠٠	
ܟܘܒܐ		ܡܠܝܘܢܐ ܘܫܬܡܐܐ ܐܠܦ̈ܐ
ܟܘܪ̈ܝܐ		ܬܠܬܐ ܡܠܝܘܢ̈ܐ ܘܐܪܒܥܡܐܐ ܘܚܕ ܐܠܦ̈ܐ

(٢٣) ܐܝܢܐ ܐܝܠܗ̇ ܡܢ ܐܬܘܬܐ ܕܚܘܫܒܐ ܐܪܒܥܐ ܬܪܝܢ ܡܫܪܝܘܬܐ ܕܫܘܬܦܐ ܓܘ ܫܢܬܐ ١٩٨٣ ܡ؟

(٢٤) ܐܝܢܐ ܐܝܠܗ̇ ܡܢ ܐܬܘܬܐ ܕܚܘܫܒܐ ܐܪܒܥܐ ܐܚܕ ܡܫܪܝܘܬܐ ܕܫܘܬܦܐ ܓܘ ܫܢܬܐ ١٩٨٣ ܡ ؟

(٢٥) ܡܢܘ ܠܐܬܘܬܐ ܕܚܘܫܒܐ ܐܪܒܥܐ ܡܫܐܠܬܐ ܐܝܟ ܚܫܒܘܬܐ ܕܡܫܪܝܘܬܐ ܕܫܘܬܦܐ ܓܘ ܫܢܬܐ ١٩٨٣ ܡ.

٢ ـ ٢ ܡܠܝܘܢ̈ܐ ܘܡܢܝܢܘܬܐ ܠܡܠܝܘܢ̈ܐ ܕܡܢܝܢ̈ܐ.

ܟܡܐ ܡܠܝܘܢ̈ܐ ܐܝܬ ܒܡܢܝܢܐ ٧٦٥٢٣٠٤ ؟ ܦܘܢܝܐ : ٧ ܡܠܝܘܢ̈ܐ.

ܟܡܐ ܡܠܝܘܢ̈ܐ ܐܝܬ ܒܡܢܝܢܐ ٩ ٩٩٩ ٩٩٩ ؟ ܦܘܢܝܐ ٩ ܡܠܝܘܢ̈ܐ.

ܡܐ ܟܡܐ ܝܠܗ ܡܘܬܪܐ ܚܕ ܠܡܢܝܢܐ ܩܕܡܝܐ ؟

```
  9 999 999
+         1
-----------
 10 000 000
```

ܚܙܝܬܘܢ ܕܡܢܝܢܐ ܠܡܢܝܢܐ ܚܕܬܐ ܐܝܬܠܗ ܡܢ ٨ ܐܬܘܬܐ ܘܟܠ ܚܕܐ : (ܚܕܐ ܡܠܝܘܢܐ).

ܠܘܚܐ (١)

ܡܠܝܘܢ̈ܐ		ܐܠܦ̈ܐ			ܚܕܢܝܘܬܐ		
ܚܕ̈ܢܝܐ	ܥܣܪ̈ܝܐ	ܡܐܘܬܐ	ܚܕ̈ܢܝܐ	ܥܣܪ̈ܝܐ	ܡܐܘܬܐ	ܚܕ̈ܢܝܐ	ܥܣܪ̈ܝܐ
٨	٧	٦	٥	٢	٣	٠	٤

- ܩܪܝ ܚܫܒܐ ܕܡܢ̈ܝܢܐ
- ܟܬܘܒ ܫܡ̈ܗܐ ܕܡܢ̈ܝܢܐ
- ܟܬܘܒ ܠܡܘܬܒܐ ܕܦܬܩ̈ܐ ܠܟܠ ܚܕ ܡܢ ܫܡ̈ܗܐ:

٣ ، ٥ ، ٧ ، ٨

[ ] [ ] [ ] [ ]

- ܫܠܡ

٨٧ ٦٥٢ ٣٠٤ = ٤ + ٣٠٠ + [ ] + ٥٠ ٠٠٠ + ٦٠٠ ٠٠٠ + [ ] + [ ] +

ܒܡܘܕܥܐ ܕܡܢܝܢܐ ، ܗ̄ܝ ܡܣܘܓܠܝܢ ܚܕ ܠܡܢ̈ܝܢܐ ٩٩٩٩٩٩٩٩ ܒܦܠܛܐ ܡܢ̈ܝܢܐ ١٠٠٠٠٠٠٠٠ ܘܩܪܝܢ ܡܢܝܢܐ (ܡܐܐ ܡܠܝܘܢ̈ܐ).

ܡܘܬ̈ܒܐ ٢

ܡܠܝܘܢ̈ܐ			ܐܠܦ̈ܐ			ܚܕܝܘܬܐ		
ܡܐܘ̈ܬܐ	ܥܣܪ̈ܝܐ	ܚܕ̈ܝܐ	ܡܐܘ̈ܬܐ	ܥܣܪ̈ܝܐ	ܚܕ̈ܝܐ	ܡܐܘ̈ܬܐ	ܥܣܪ̈ܝܐ	ܚܕ̈ܝܐ
٤	٢	٩	١	٦	٠	٧	٣	٥

- ܩܪܝ ܚܫܒܐ ܕܡܢ̈ܝܢܐ.
- ܟܬܘܒ ܠܛܝܡܐ ܕܡܢܝܢܐ ܠܗ ܕܘܟܬܐ ܕܥܣܪ̈ܝܐ
- ܟܬܘܒ ܠܛܝܡܐ ܕܡܢܝܢܐ ܠܗ ܕܘܟܬܐ ܕܥܣܪ̈ܝܘܬܐ ܕܐܠܦ̈ܐ

- ܟܬܘܒ ܠܪܩܡܐ ܕܥܡܝܠܐ ܠܗ ܕܘܟܐ ܫܬ̈ܬܐ ܕܡܠܝܘܢ̈ܐ
- ܟܬܘܒ ܠܪܩܡܐ ܕܥܡܝܠܐ ܠܗ ܕܘܟܐ ܬܠ̈ܬܐ ܕܡܠܝܘܢ̈ܐ
- ܟܬܘܒ ܠܦܘܫܩܐ ܕܘܟ̈ܝܬܐ ܕܪܩܡܐ :

٥	٤	٣	٢	١

ܕܘܪܫܐ (٢ـ٦)

ܚܕ : ܩܪܝ ܠܡܢܝܢ̈ܐ ܕܪܫܝܡܝܢ ܬܚܬ :

(١) ٢ ٥٤٣ ١٢٥   (٢) ٩٤ ٧٢٥ ٦٣٠

(٣) ٤٢ ٥٦٩ ٨٧١   (٤) ١٧٦ ٧٢٤ ٠٠٠

(٥) ٥٤٨ ٢١١ ٣٤٧   (٦) ٤٢٥ ٥٠٠ ٥٤٣

(٧) ٧٠٠ ٩٠٥ ٥٠٠   (٨) ٩٠٠ ٠٧١ ٠٠٠

(٩) ٩٩٥ ٠٠٩ ٠٠٩   (١٠) ٩٢٠ ٠٠٠ ٠٠١

ܬܪܝܢ : ܟܬܘܒ ܠܪܩܡܘܗܝ ܕܡܢܝܢ̈ܐ ܕܐܬܝ :

(١١) ٥ ܡܠܝܘܢ̈ܐ ܘ ٣٢٤ ܐܠܦ̈ܐ ܘ ٧٦٥.

(١٢) ܬܠܬ ܡܐܐ ܡܠܝܘܢ̈ܐ ܘܐܪܒܥܝܢ ܘܐܪܒܥ ܘܫܒܥܐ ܐܠܦ̈ܐ

(١٣) ܐܪܒܥܝܢ ܘܫܒܥܣܪ ܡܠܝܘܢ̈ܐ ܘܫܬܡܐ ܘܬܡܢܝܐ

(١٤) ܬܫܥܝܢ ܡܠܝܘܢ̈ܐ ܘܫܒܥܣܪ ܐܠܦ̈ܐ ܘܫܒܥܣܪ

(١٥) ܫܒܥܝܢ ܘܫܒܥ ܡܠܝܘܢ̈ܐ ܘܫܒܥܝܢ

ܬܠܬܐ : ܡܠܝ

(١٦) ٣ ٤١٥ ٢٣٦ = ٦ + ٣٠ + ٢٠٠ + ٥٠٠٠ + ١٠ ٠٠٠ + [ ] + [ ]

(١٧) ١٩ ٨٧٦ ٤٣٥ = ٥ + [ ] + ٤٠٠ + [ ] + ٧٠ ٠٠٠ + [ ] + [ ] + [ ]

(١٨) ٤٠ ٣٩٨ ٢٠٣ = ٣ + ٢٠٠ + [ ] + [ ] + [ ] + [ ]

(١٩) ١٨٣ ٠٠٠ ٤٩٧ = ٧ + ٩٠ + [ ] + [ ] + [ ] + [ ]

(٢٠) ٤٠٠ ٥٠٥ ٠٠٣ = [ ] + ٥٠٠٠ + [ ] + [ ]

ܬܪܬܐ : ܟܬܘܒ ܡܢܝܢܐ ܕܡܢܝ̈ܢܐ ܒܚܕ ܡܢ ܕܪ̈ܓܐ (ܕܠܐ ܫܪ̈ܒܬܐ ܕܡܢܝܢܘܬܐ ܕܟܘ̈ܠܗ

(٢١) ٧ + ٣٠ + ١٠٠ + ٥ ٠٠٠ + ٨٠ ٠٠٠ + ١٠ ٠٠٠ ٠٠٠

(٢٢) ٤٠ + ٣ ٠٠٠ + ٢٠٠ ٠٠٠ + ٥٠٠ ٠٠٠ ٠٠٠

(٢٣) ٩ + ٨ ٠٠٠ + ١٠٠ ٠٠٠ + ٧ ٠٠٠ ٠٠٠ + ٦٠٠ ٠٠٠ ٠٠٠

ܫܬܥܣܪ : ܟܬܘܒ ܠܫܘܝܘܬܐ ܕܡܢܝܢܘܬܐ ܕܪܫܐ ܕܐܝܬ ܬܚܘܬܗ ܣܪܛܐ :

(٢٤) ٤٤ ٩٣٥

(٢٥) ٤٦ ٨٧

(٢٦) ٢٥٦ ٤٣٢ ٠٠١

(٢٧) ٦٢٥ ٢٢٩

(٢٨) ٦٧١ ٢٤٥ ٦٠٠

(٢٩) ٢٥ ٩٩٣ ٤٠٠

(٣٠) ٤٣٠ ٠٠٠ ٠٠٠

(٣١) ٩٠٠ ٤٠٩ ٠٠٠

ܫܒܥ : ܣܝܡ ܒܝܢ ܬܪܝܢ ܡܢܝ̈ܢܐ ܢܝܫܢܐ ܕܝܠܗ ܠܚܕ ܡܢ : > ܝܐ < ܝܐ = :

(٣٢) ٩٨ ◯ ٨٩

(٣٣) ٣٥ ٨١٤ ◯ ٣٩ ٧١٤

(٣٤) ٧٤٣ ٤٨١ ◯ ٧٤٣ ٥٨١

(٣٥) ٦ ٨٨٣ ٤١٣ ◯ ٦ ٩٧٩ ٤١٣

(٣٦) ٧ ٩٠٠ ٠٠٠ ◯ ١ ٠٠٠ ٧٩٠

(٣٧) ١٢٧ ٠٨٩ ٩٩٩ ◯ ١٢٠ ٧٩٠ ٠٠٠

ܬܡܢܐ : ܣܕܘܪ ܠܡܢܝ̈ܢܐ ܕܐܬܝ ܡܢܩܕܡ :

(٣٨) ٩ ٩٤٠ ٥٦١ ، ١٨٩ ٢٤١ ٠٠٠ ، ٩٩٩ ٩٩٩

(٣٩) ٣ ٥٠٧ ١٢٠ ، ٣ ٠٥٧ ١٢٠ ، ٣ ٥٠٧ ٠١٢

ܦܘܠܚܢܐ : ܟܬܘܒ ܠܡܢܝܢܐ ܕܐܬܝ ܦܫܝܛܐܝܬ :

(٤٠) ٥ ٢٧٠ ٣٢١ ، ١١ ٢٠٠ ١٠٠ ، ٧ ٥٢٠ ٣٢١

(٤١) ٠٢٧ ٥٣٤ ٢٠٠ ، ٢٧٠ ٥٣٤ ٢٠٠ ، ٢٧٠ ٥٣٤ ٢٠١

ܦܘܫܩܐ : ܓܒܝ ܠܦܘܢܝܐ ܗܕܝܢ ܒܡܠܐ ܕܐܬܐ :

(٤٢) ܡܘܬܒܐ ܕܦܬܟܡܐ ܕܡܢܝܢܐ ٥ ܒܗ ܡܢܝܢܐ ٨٢٤ ٦٩٣ ٧١٥ ܝܠܗ

(ܐ) ٥ (ܒ) ٥٠٠ ٠٠٠ ٠٠٠ (ܓ) ٥ ٠٠٠ ٠٠٠

(٤٣) ١ + ٩٠٠ + ٤٠٠ ٠٠٠ + ٦٠٠ ٠٠٠ ٠٠٠ =

(ܐ) ٦ ٤٩١ (ܒ) ٦٠٠ ٤٠٠ ٩٠١ (ܓ) ٦٠٤ ٠٠٩ ٠٠١

(٤٤) ܟܬܘܒ ܕܡܢܝܢܐ (ܚܡܫܐ ܡܠܝܘܢܐ ܘܬܫܥܐ ܐܠܦܐ ܘܬܫܥܐ) ܝܠܗ :

(ܐ) ٥ ٠٠٩ ٠٠٩ (ܒ) ٥٠ ٠٩٠ ٠٠٩ (ܓ) ٥٠٠ ٩٠٠ ٠٠٩

ܦܫܪܐ : ܒܗܢܐ ܕܐܬܐ ܠܓܠܐ ܡܢܝܢܐ ܕܥܡܡܐ ܕܐܬܪܘܬܐ ܕܡܕܢܚܐ ܡܨܥܝܬܐ ܒܫܢܬܐ ٢٠٠٠ ܡ

ܡܢܝܢܐ ܕܥܡܡܐ ܒܫܢܬܐ ٢٠٠٠ ܡ	ܫܡܐ ܕܐܬܪܐ
١ ٧١٠ ٠٠٠	ܐܪܕܢ
٥٨٢ ٠٠٠	ܟܘܝܬ
١٥ ٢١٠ ٠٠٠	ܣܘܪܝܐ
٣٣ ٦٠٠ ٠٠٠	ܥܝܪܩ
١ ٨٨٠ ٠٠٠	ܠܒܢܢ
٤١١ ٠٠٠	ܩܛܪ
٢ ٢٥٠ ٠٠٠	ܥܘܡܢ
٥٥ ٦٤٠ ٠٠٠	ܟܘܠܗܘܢ

ܟܬܘܒ ܒܡܘܪܟܒܐ ܗܠܝܢ ܡܠܐ ܕܐܬܐ :

(٤٥) ܟܡܐ ܐܝܬ ܒܝܬܘ̈ܬܐ ܕܒܝܬܐ ܒܟܬܒܐ ܒܡܫܘܚܬܐ ܩܪܝܒܐ ٢٠٠٠ ܡ ؟ ܘܟܡܐ ܒܝܘܬܐ ܡܢܝܢ̈ܐ ܕܡܫܘܚܬܐ ؟

(٤٦) ܟܡܐ ܕܠܐ ܒܝܬܘ̈ܬܐ ܕܒܝܬܐ ܒܟܬܒܐ ܒܡܫܘܚܬܐ ܩܪܝܒܐ ٢٠٠٠ ܡ ؟ ܘܟܡܐ ܒܝܘܬܐ ܡܢܝܢ̈ܐ ܕܡܫܘܚܬܐ ؟

(٤٧) ܟܬܘܒ ܠܒܝܬܘ̈ܬܐ ܒܟܠܗ ܠܟܠܗ ܡܢܝܢ̈ܐ ܕܡܫܘܚܬܐ ܩܪܝܒܐ ٢٠٠٠ ܡ.

٢ - ٣ ܩܘܪܒܬܐ ܕܡܢܝܢ̈ܐ

ܬܘܝܬܐ   ܡܢܝܢܐ ܐܚܕ ٤٨ ܟܝܠܗ ܒܝܢ ٤٠ ، ٥٠ :

$$٤٨ = ٨ + ٤٠$$

ܘܗܘ ܩܪܝܒ ܝܘܬܪ ܒܠܚܘܕ ܠܡܢܝܢܐ ٥٠ ܡܢ ܡܢܝܢܐ ٤٠ (ܠܡܢܐ ؟).

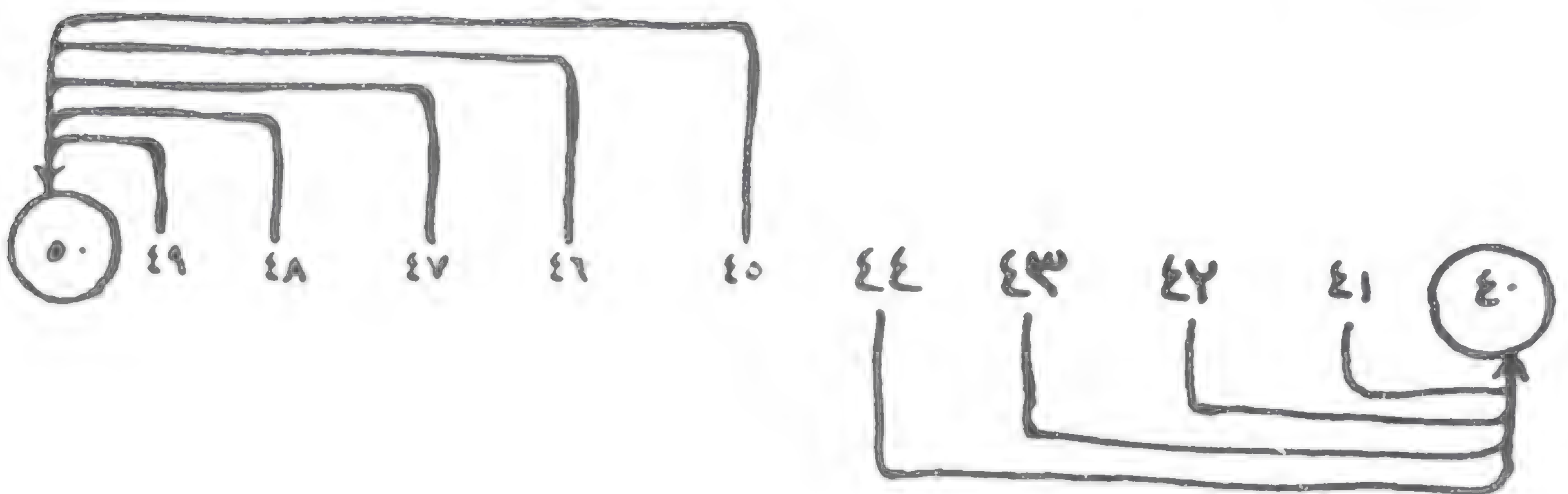
ܐܦ ܡܢܝܢ̈ܐ ٤٦ ، ٤٧ ، ٤٩ ܟܠܗܘܢ ܒܝܢ ٤٠ ، ٥٠ ܘܟܠܗܘܢ ܩܪܝܒܝ ܝܘܬܪ ܒܠܚܘܕ ܠܡܢܝܢܐ ٥٠ ܡܢ ܡܢܝܢܐ ٤٠.
ܡܢ ܓܒܐ ܡܢܝܢ̈ܐ ٤١ ، ٤٢ ، ٤٣ ܟܠܗܘܢ ܒܝܢ ٤٠ ، ٥٠ ܒܪܡ ܟܠ ܚܕ ܡܢܗܘܢ ܩܪܝܒ ܝܘܬܪ ܒܠܚܘܕ ܠܡܢܝܢܐ ٤٠ ܡܢ ܡܢܝܢܐ ٥٠.

ܗܟܢ ܐܘܪܚܐ ܒܩܘܪܒܐ :

٥٠	⟵	٤٦	‖	٤٠	⟵	٤١
٥٠	⟵	٤٧	‖	٤٠	⟵	٤٢
٥٠	⟵	٤٨	‖	٤٠	⟵	٤٣
٥٠	⟵	٤٩	‖	٤٠	⟵	٤٤

ܐܦ ܟܝܬ ܡܢܝܢܐ ܕܩܪܒ ⟵ (ܟܘܪ ܩܘܪܒܐ)، ܘܩܘܪܒܬܐ ܠܒܝܬ ܠܩܘܪܒܐ ܝܬܝܪܐ.
ܐܢ ܗܘܐ ܡܢܝܢܐ ٤٥ ܗܘܐ ܟܝܠܗ ܒܝܢ ٤٠ ، ٥٠ ܘܡܫܘܚܬܐ ܫܘܝܐ.

... ܒܘܣ ܡܢܝܢܐ ܡܢ ܥܠ ١ ، ٢ ، ٣ ، ٤ ܠܐ ܡܫܬܚܠܦܝܢ ܡܢܝܢ̈ܐ ܠܥܣܪ̈ܝܬܐ ܩܪܝܒܬܐ ܠܐ ܡܢܗܘܢ
... ٥ ، ܟܠ ܡܢܝܢ̈ܐ ܗܠܝܢ :
٤ = ٥٠ ܡܫܬܚܠܦܝܢ ܠܥܣܪ̈ܝܬܐ ܩܪܝܒܬܐ.



ܦܘܫܩܐ (١)

ܩܪܒ ܡܢܝܢܐ ١٨٦ ܠܥܣܪ̈ܝܬܐ ܩܪܝܒܬܐ

ܫܪܝܐ :

ܚܕ̈ܝܘܬܐ ܕܡܢܝܢܐ = ٦

ܘܟܕ ٦ > ٥

ܗܝܕܝܢ ܡܢܝܢܐ ١٨٦ ܡܩܘܪܒܐ ܠܥܣܪ̈ܝܬܐ ܩܪܝܒܬܐ = ١٩٠

١٨ ٦

٦ > ٥

ܦܘܫܩܐ (٢)

ܩܪܒ ܡܢܝܢܐ ١٥٧٢ ܠܥܣܪ̈ܝܬܐ ܩܪܝܒܬܐ

ܫܪܝܐ :

ܚܕ̈ܝܘܬܐ ܕܡܢܝܢܐ = ٢ < ٥

ܗܝܕܝܢ ١٥٧٢ = ١٥٧٠

ܡܩܘܪܒܐ ܠܥܣܪ̈ܝܬܐ ܩܪܝܒܬܐ.

١٥٧ ٢

٢ < ٥

ܕܘܪܫܐ (٢ - ٣ ܐ)

ܐܢܬ : ܩܪܒ ܠܥܣܪ̈ܝܬܐ ܩܪܝܒܬܐ :

(١) ٣٧ (٢) ٥٥ (٣) ٢٥٣

(٤) ٣ ٤٠٥ (٥) ١٧ ٢٦١ (٦) ١٨٤ ٣٦٩

(٧) ٥ ٣١٠ (٨) ٧ ٠٩٩ (٩) ٨٩ ٩٩٩

ܬܡܪܝܢ : ܩܪܒ ܠܡܐܬ̈ܐ ܩܪܝ̈ܒܐ

(١٠) ܡܢܝܢܐ ١٥٠٢ ܡܩܘܪܒܐ ܠܡܐܬ̈ܐ ܩܪܝܒܐ ܗ̱ܘܐ =

(ܐ) ١ ٥٠٢ (ܒ) ١ ٥١٠ (ܓ) ١ ٥٠٠

(١١) ܡܢܝܢܐ ٣٠٩٩ ܡܩܘܪܒܐ ܠܡܐܬ̈ܐ ܩܪܝܒܐ ܗ̱ܘܐ =

(ܐ) ٣ ٠٩٠ (ܒ) ٤ ٠٠٠ (ܓ) ٣ ١٠٠

(١٢) ܡܢܝܢܐ ١٠٩ ٩٩٥ ܡܩܘܪܒܐ ܠܡܐܬ̈ܐ ܩܪܝܒܐ ܗ̱ܘܐ =

(ܐ) ١٠٩ ٩٩٠ (ܒ) ١٠٠ ٠٠٠ (ܓ) ١١٠ ٠٠٠

ܚܙܝܠܘܟ ܕܐܝܬܝܗ ܚܕܕܐ ܗܘܐ ܦܘܪܫܘܢܐ ܩܘܪܒܐ ܕܡܩܪܒܢܐ ܠܐ ܡܩܘܪܒܐ ܕܡܢܝܢ̈ܐ ܠܡܐܬ̈ܐ ܩܪܝܒܐ. ܟܕ ܗܘܐ ܗܘܐ ܠܡܐ ܕܝܢ ܠܐ ܕܐܚܐ ܕܡܢܝܢܐ ܝܢ ܗܘܐ > ٥، ܒܗ ܡܩܪܒܝܢܢ ܠܡܐܬ̈ܐ ܩܪܝܒܐ ܝܢ ܗܘܐ ܐܝܬ ܡܢ ٥ ܐܘ ܒܬܪ ٥ (ܡܩܪܒܝܢ ܡܢܝܢܐ ≤ ܠܡܩܪܘܒܐ ܠܐܬܪ ܡܢ ٥ ܐܘ ܒܬܪ).

ܐܝܟܐ ، ܝܢ ܚܕܝܢ ܕܡܩܪܒܝܢ ܡܢܝܢܐ ܠܡܐܬ̈ܐ ܗܘܐ، ܟܕ ܚܕܝܢ ܦܘܪܫܘܢܐ ܩܘܪܒܐ ܕܗܘܐ: ܗܐ ܡܬܘܡܐ ، ܡܢܝܢܐ ٧٤٢ ܒܝܢܬ ٨٠٠ ، ٧٠٠ ܘܐܝܬܝܗ ܩܘܪܒܐ ܠܡܐܬ̈ܐ ܠܐ
٧٠٠ ܡܢ ٨٠٠ ، ܩܪܝܒ ܐܘܬܐ

٧٤٢ = ٧٠٠ ܡܩܘܪܒܐ ܠܡܐܬ̈ܐ ܗ̱ܘܐ.

ܘܡܢܝܢܐ ٧٦١ ܒܝܢܬ ٧٠٠ ، ٨٠٠ ܒܗ ܩܘܪܒܐ ܠܡܐܬ̈ܐ ܝܠܗ ܠ ٨٠٠ ܡܢ ٧٠٠ ، ܩܪܝܒ ܕܐܘܬܐ :

٧٦١ = ٨٠٠ ܡܩܘܪܒܐ ܠܡܐܬ̈ܐ ܗ̱ܘܐ

٣ ٤ ٧

٥ > ٤



ܢܣܝ ܚܘܫܒܐ ، ܚܕ ܡܢ ܡܢܝܢܐ ܕܠܬܚܬ :

٧٥١ ، ٧٥٢ ، ٧٥٣ ، ... ، ٧٥٩

= ٨٠٠ ܡܩܘܪܒܐ ܠܡܐܘܬܐ ܡܠܝܐ

ܐܢ ܐܝܬ ܡܢܝܢܐ ܗܘ ܕܐܝܬܘܗܝ > ٥٠ ܠܐ ܡܩܪܒܐ ܠܡܐܘܬܐ ܡܠܝܐ.

ܕܐܝܬܘܗܝ . ܗܘܐ ܠܐ ܗܘܐ ܠܡܐ ≥ ٥٠ (٥٠ ، ٥١ ، ٥٢ ، ... ، ٥٩)

ܘܟܠ ܕܐܝܬ ܒܗܘܢ : ٧٥٠ = ٨٠٠ ܡܩܘܪܒܐ ܠܡܐܘܬܐ ܡܠܝܐ.

ܠܕܝܢܐܝܬ ، ܠܡܩܪܒܘ ܡܢܝܢܐ ܠܡܐܘܬܐ ܡܠܝܐ ܠܚܡܝ ܒܡܢܝܢܐ ܕܫܘܪܝܐ :

> ١ - ܐܢ ܗܘܐ ܡܢܝܢܐ ܕܟܬܝܒ ܒܕܘܟܬܐ ܕܥܣܪܬܐ < ٥ ܡܫܒܩܝܢ ܠܗܘܢ ܕܡܢܝܢ ܒܕܘܟܬܐ ܕܡܐܘܬܐ ܘܥܣܪܬܐ ܠܐ ܝܬܝܪܐ < ٥٠ .
>
> ٢ - ܐܢ ܗܘܐ ܡܢܝܢܐ ܕܟܬܝܒ ܒܕܘܟܬܐ ܕܥܣܪܬܐ ≥ ٥ ܡܬܝܬܝܢ ܚܕ ܡܐܐ ܠܕܘܟܬܐ ܕܡܐܘܬܐ ܘܥܣܪܬܐ ܝܬܝܪܐ ܡܢ ܗܢܐ ≥ ٥٠ .

ܚܘܫܒܐ (٣)

ܩܪܒ ܟܠ ܚܕ ܕܠܬܚܬ ܠܡܐܘܬܐ ܡܠܝܐ :

(ܐ) ٥٢ ٧٨٤   (ܒ) ٥٠ ٦٤٩

(ܓ) ١٢٤ ٠٥١   (ܕ) ٤٣ ٩٩٢

ܦܘܫܩܐ

(ܐ) ٥٢ ٧٨٤ = ٥٢ ٨٠٠   (ܡܢܝܢܐ ܕܥܣܪܬܐ = ٨ > ٥)

(ܒ) ٥٠ ٦٤٩ = ٥٠ ٦٠٠   (ܡܢܝܢܐ ܕܥܣܪܬܐ = ٤ < ٥)

(ܓ) ١٢٤ ٠٥١ = ١٢٤ ١٠٠   (ܡܢܝܢܐ ܕܥܣܪܬܐ = ٥)

(ܕ) ٤٣ ٩٩٢ = ٤٤ ٠٠٠   (ܡܢܝܢܐ ܕܥܣܪܬܐ = ٩ > ٥)

ܒܗܕܐ ܕܡܢܝܢܐ ܗܟܝܢ ܕܡܩܪܒܝܢ ܠܡܢܝܢܐ ܠܡܘܬܒܝܢ ܐܠܦܐ :

> ١ ـ ܐܢ ܗܘܐ ܡܢܝܢܐ ܕܫܘܒܐ ܕܘܟܬܐ ܕܡܐܘܬܐ < ٥ ܡܩܪܒܝܢ ܠܡܢܝܢܐ ܕܡܢܝܢ ܕܘܟܬܐ ܕܐܠܦܐ ܘܡܐܘܬܐ ܘܥܣܪܘܬܐ ܒܕ ܗܘܝܐ ٠٠٠ < ٥ .
>
> ٢ ـ ܐܢ ܗܘܐ ܡܢܝܢܐ ܕܫܘܒܐ ܕܘܟܬܐ ܕܡܐܘܬܐ ≥ ٥ ܡܩܪܒܝܢ ܗܘ ܕܒܝܬ ܠܕܘܟܬܐ ܕܐܠܦܐ ܘܡܐܘܬܐ ܘܥܣܪܘܬܐ ܠܐܠܦܐ ܒܕ ܗܘܝܐ ≥ ٥٠٠ .

ܬܡܪܝܢܐ (٤)

ܩܪܒ ܟܠ ܚܕ ܕܐܠܗ ܠܡܘܬܒܝܢ ܐܠܦܐ

(ܐ) ٦٢ ٣٧٠ (ܒ) ١٠٤ ٧٨٩ (ܓ) ١١٧٥٢٤

ܫܪܝܐ :

(ܐ) ٦٢ ٣٧٠ = ٦٢ ٠٠٠ ܡܢܝܢܐ ܕܡܐܘܬܐ = ٣ > ٥)

(ܒ) ١٠٤ ٧٨٩ = ١٠٥ ٠٠٠ ܡܢܝܢܐ ܕܡܐܘܬܐ = ٧ < ٥)

(ܓ) ١١٧ ٥٢٤ = ١١٨ ٠٠٠ ܡܢܝܢܐ ܕܡܐܘܬܐ = ٥)

ܕܘܟܬܐ (٢ ـ ٣ ܒ) ( )

ܐ : ܩܪܒ ܠܡܘܬܒܝܢ ܡܐܐ :

(١) ١٠٨	(٢) ١٩٠	(٣) ٣٦٧
(٤) ٤٩	(٥) ٦٥٠	(٦) ٥١
(٧) ٧ ٩٠٠	(٨) ٩ ٩٤٠	(٩) ٣٠ ٩٧٠
(١٠) ١٩٩٨٠		

ܒ : ܩܪܒ ܠܡܘܬܒܝܢ ܐܠܦܐ :

(١) ٣ ١٢٥	(٢) ٣ ٦٤٩	(٣) ٦ ٥٠٠
(٤) ٤ ٠٩٦	(٥) ٩ ٨٧٥	(٦) ٢٥ ٥٠٠
(٧) ٤٩ ٧٢٣	(٨) ١٩ ٩٠٠	(٩) ٦٠ ٣٩٩

ܗܠܟܼܐ : ܩܪܒ ܠܡܢܝܢܐ ܗܕܝܪܐ :

١) ܡܢܝܢܐ ٢٠٩ ܡܩܘܪܒܐ ܠܥܣܪܢܝܬܐ ܗܘܐ

(١) ٢١٠ (٢) ٢١٠ (٣) ٣٠٠

٢) ܡܢܝܢܐ ٩٩٠ ܡܩܘܪܒܐ ܠܡܐܢܝܬܐ ܗܘܐ

(١) ٩٠٠ (٢) ١٠٩٠ (٣) ١٠٠٠

٣) ܡܢܝܢܐ ١١٠٩ ܡܩܘܪܒܐ ܠܡܐܢܝܬܐ ܗܘܐ

(١) ١١١٠ (٢) ١١٠٠ (٣) ١٢٠٠

٤) ܡܢܝܢܐ ٤٨٣ ܡܩܘܪܒܐ ܠܥܣܪܢܝܬܐ ܝܗܘܐ

(١) ٤٨٠ (٢) ٤٩٠ (٣) ٥٠٠

٥) ܡܢܝܢܐ ١٠٨٦٤٥ ܡܩܘܪܒܐ ܠܥܣܪܢܝܬܐ ܗܘܐ

(١) ١٠٨ ٦٥٠ (٢) ١٠٨ ٧٠٠ (٣) ١٠٨ ٦٠٠

٦) ܡܢܝܢܐ ١٢٣٦٥ ܡܩܘܪܒܐ ܠܡܐܢܝܬܐ ܝܗܘܐ

(١) ١٢ [illegible] (٢) ١٢ ٣٧٠ (٣) [illegible]

٧) ܡܢܝܢܐ ٨٧٩ ܡܩܘܪܒܐ ܠܡܐܢܝܬܐ ܗܘܐ

(١) ٨٨١ (٢) ٩١٠ (٣) [illegible]

ܬܪܝܢܐ : ܩܪܒ ܠܡܢܝܢܐ ܗܕܝܪܐ :

١) ܡܢܝܢܐ ١٩٠٨٥ = ١٩١٠٠ ܡܩܘܪܒܐ ܠܡܐܢܝܬܐ

(ܐ) ܝܬܝܪܐ (ܒ) ܗܘܐ (ܓ) ܐܠܦܐ

٢) ܡܢܝܢܐ ١٩٫٨٥ = ١٩٠٠ ... ܡܩܘܪܒܐ ܠܡܐܬܢܝܬܐ

(ܐ) ܫܪܝܪܐ (ܒ) ܕܓܠܐ (ܓ) ܠܐ ܝܕܥܢܐ

٣) ܡܢܝܢܐ ٩٩ ٩٣٤ = ... ١٠٠ ܡܩܘܪܒܐ ܠܡܐܬܢܝܬܐ

(ܐ) ܫܪܝܪܐ (ܒ) ܕܓܠܐ (ܓ) ܠܐ ܝܕܥܢܐ

٤) ܐܢ ܗܘܐ ܡܢ ܡܣܟܠܢܘܬܐ ܕܕܪܫܬܐ ܐܝܬ ٤٣٧ ܬܠܡܝ̈ܕܐ ܘܐܝܬ ٢٧٤ ܬܠܡܝ̈ܕܬܐ ܡܢ ܕܪܫܬܐ. ܩܘܪܒܐ ܕܗܘܐ ܡܢܝܢܐ ܡܢ ܕܪܫܬܐ ܐܝܟܢܐ ܐܝܬ:

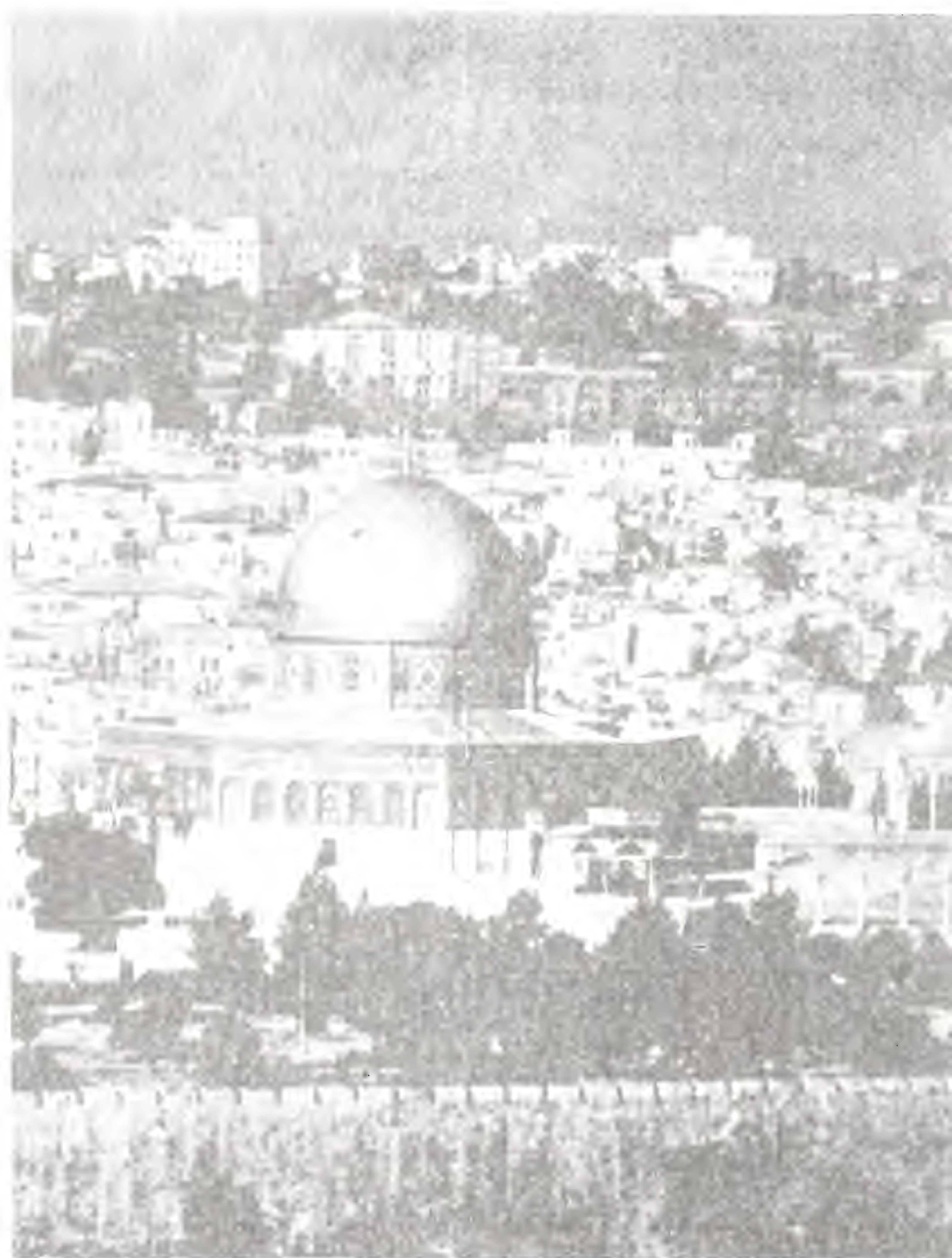
(١) ٦٠٠ ܬܠܡܝ̈ܕܐ
(٢) ٧١٠ ܬܠܡܝ̈ܕܐ
(٣) ١٦٠ ܬܠܡܝ̈ܕܐ
(٤) ٨٠٠ ܬܠܡܝ̈ܕܐ

٥) ܡܥܒܕܐ ܡܠܐ ܐܝܟ ١٠٠ ܠܝܬܪܐ ܡܢ ܢܦܛܐ. ܡܠܐ ܗܘ ܡܟܠܡܐ ܕ ٩٩٩٦٤ ܠܝܬܪܐ ܡܢ ܢܦܛܐ

(١) ٩٩٩ ܡܥ̈ܒܕܐ
(٢) ٩٩٠ ܡܥܒܕܐ
(٣) ١٠٠٠ ܡܥ̈ܒܕܐ

٦) ܦܪܣܐ ܡܠܟܐ ١٠٠٠ ܟܝܠܘܡܝܛܪܐ ܒܫܥܬܐ ܚܕܐ. ܐܢ ܡܩܪܒ ܡܢ ܗܕܐ ܦܪܣܐ ܗܘܐ ܠܗ ٩٥٢٩ ܟܝܠܘܡܝܛܪܐ. ܦܪܣܐ ܒܫܥܬܐ ܗܘ ܡܠܟܐ ܕܩܪܒܐ ܡܢ ܗܕܐ ܦܪܣܐ ܙܒܢܐ ܐܝܟ:

(١) ٩ ܫܥ̈ܝܐ
(٢) ١٠ ܫܥ̈ܝܐ
(٣) ١١ ܫܥ̈ܝܐ



ܡܢܝܢܐ ܕܡܫܝܚܝܐ ܠܥܘܠܡܐ ܟܠܗ ܒܫܢܬܐ ܕ ١٩٧٥ ܡ ܡܢ ܡܫܡܫܢܐ ܐܘܪܫܠܡ ٣٨٢٩٧٧، ܘܡܢ ܟܠ
٤٦٨٦٢١. ܐܝ ܒܫܢܬܐ ܡܢܝܢܐ ܟܠܗܘܢ ܕܡܫܝܚܝܐ ܠܥܘܠܡܐ ܒܫܢܬܐ ١٩٧٥ ܡ ܡܫܡܫܢܐ ܗܘܘ
ܕܡܫܝܚܝܘܬܐ ܕܟܘܪܗܢܐ ܠܥܡܡܐ ܡܢܝܢܐ ٣٨٢٩٧٧ ܘ ٤٦٨٦٢١.

ܦܣܘܩܐ ܬܠܝܬܝܐ

ܟܢܫܐ ܘܒܘܨܪܐ

٣ - ١ ܟܢܫܐ

ܡܢܝܢܐ ܡܢܝܢܐ ܕܒܢܝ̈ܢܫܐ ܠܐܘܪܫܠܡ ܒܫܢܬܐ ܕ ١٩٧٥ ܗ̄ ܡܢ ܡܫܝܚܝ̈ܐ ܐܝܬܘܗܝ ٣٨٢٩٧٧، ܘ
ܐܝܬܘܗܝ ٤٦٨٦٢١. ܟܡܐ ܗܘܐ ܡܢܝܢܐ ܕܒܢܝ̈ܢܫܐ ܠܐܘܪܫܠܡ ܒܫܢܬܐ ١٩٧٥ ܒܟܠܗܘܢ.

ܩܕܡ ܕܡܚܫܒܝܢ ܠܡܢܝܢܐ ܡܩܪܒ ܢܚܙܐ ܕܫܘܟܠܠܐ ܕܟܢܫܐ :

٣٨٢ ٩٧٧ = ٣٨٣ ٠٠٠ ܠܡܢܝ̈ܢܬܐ ܐܠܦ̈ܐ

، ٤٦٨ ٦٢١ = ٤٦٩ ٠٠٠ ܠܡܢܝ̈ܢܬܐ ܐܠܦ̈ܐ

ܗܟܝܠ ܟܢܫܐ ܡܩܪܒܢܝܐ ܠܡܢܝܢܐ ܟܠܗܘܢ = ٨٥٢ ٠٠٠

ܘܡܢܝܢܐ ܕܟܢܫܐ ܚܬܝܬܐ ܐܝܟ ܕܠܬܚܬ :

٣٨٢ ٩٧٧
٤٦٨ ٦٢١ +
---
٨٥١ ٥٩٨

٧+١=٨
٧+٢+١ = ١٥
٩ + ٦ = ١٥
١+٢+٨=١١
١+٨+٦=١٥
١+٣+٤=٨

ܚܘܝ ܕܟܢܫܐ ܡܩܪܒܢܝܐ ܠܡܢܝܢܐ ܡܕܡ ܩܪܝܒܐ ܕܫܘܟܠܠܐ ܕܟܢܫܐ ܚܬܝܬܐ ܠܘܬ ܕܡܫܘܡܠܝܘܬܐ ܕ

ܦܘܠܚܢܐ (١)

ܐܫܟܚ ܠܡܟܢܫܐ ٤٦٣ ٧٢٠ ١ + ٥٩٧ ٧١٨

ܦܫܪܐ :

ܩܪܘܒ ܕܨܝܕ ܡܩܪܒܘܬܐ ܡܟܢܫܐ ܐܝܟ ܕܐܬܐ :

١ ٧٢٠ ٤٦٣ ܠܡܬܪܒܥܝܢ ܐܠܦܐ = ١ ٧٢٠ ٠٠٠

٥٩٧ ٧١٨ ܠܡܬܪܒܥܝܢ ܐܠܦܐ = ٥٩٨ ٠٠٠

ܡܩܪܒܘܬܐ ܡܬܪܒܥܬܐ ܕܡܟܢܫܐ = ٢ ٣١٨ ٠٠٠

ܘܡܟܢܫܐ = ٢ ٣١٨ ١٨١ .

(١)(١)(١)	(١)
١ ٧٢٠	٤٦٣
٥٩٧	٧١٨+
٢ ٣١٨	١٨١

ܚܙܝܢܢ ܝܠܗ ܕܡܩܪܒܘܬܐ ܡܬܪܒܥܬܐ ܕܡܟܢܫܐ

ܩܪܝܒܐ ܝܠܗ ܠܫܪܝܪܘܬܐ ܕܡܟܢܫܐ

ܦܘܠܚܢܐ (٢)

ܡܘܪܝ ܝܠܗ ܐܪܥܐ ܕܒܝܬ ܢܗܪܝܢ ܠܐ ܐܪܥܐ ܕܥܪܒܝܐ ܟܕ ܡܫܘܚܬܐ ܕܡܘܨܠܐ ٢ ٥٠٥ ٨١٣ ܟܝܠܘܡܝܛܪ̈ܐ ܡܪ̈ܒܥܐ ، ܘܡܫܘܚܬܐ ܕܐܬܘܪ ܟܕ ܡܫܘܚܬܐ ܕܗ ٢ ٢٥٠ ٠٠٠ ܟܝܠܘܡܝܛܪ̈ܐ ܡܪ̈ܒܥܐ. ܚܫܘܒ ܠܡܫܘܚܬܐ ܕܬܪܬܝܗܝܢ ܐܪ̈ܥܬܐ ܡܩܪܒܐܝܬ.

ܦܫܪܐ :

ܡܫܘܚܬܐ ܡܩܪܒܬܐ ܝܠܗ ܐܝܟ ٢ ٥٠٦ ܐܠܦܐ + ٢٢٥٠ ܐܠܦܐ

٤ ٧٥٦ ܐܠܦܐ ܡܢ ܟܝܠܘܡܝܛܪ̈ܐ ܡܪ̈ܒܥܐ

ܡܫܘܚܬܐ ܫܪܝܪܬܐ = ٢ ٥٠٥ ٨١٣ + ٢ ٢٥٠ ٠٠٠

= ٤ ٧٥٥ ٨١٣ ܟܝܠܘܡܝܛܪ̈ܐ ܡܪ̈ܒܥܐ

(ܚܙܝ ܕܡܫܟܠܝܬ ܠܩܪܒܐ ܕܡܢܝܢ̈ܐ ܙܥܘܪܐ ܠܗ ܣܟܠܐ ܕܡܟܢܫܐ ܕܡܢܝܢ̈ܐ)

ܕܘܪܫܐ (٣ - ١)

ܐ : ܩܪܘܒ ܟܠ ܡܟܢܫܐ ܕܡܢܝܢ̈ܐ ܘܫܩܘܠ ܡܩܪܒܘܬܐ ܠܡܟܢܫܐ.

(١) ١ ٧٧٦ ⟵ ١ ٨٠٠   (٢) ٣١٥ ١١٤ ⟵ ٣١٥ ٠٠٠

٢٣٤+ ⟵ ٢٠٠+   ١ ١٥٣+ ⟵ ١ ٠٠٠+

________   ________   ________   ________

(٣) ٩ ٥١٩

٧٨٢+

(٤) ٤٠٩ ٢٣٦

١٤ ٦٠٥+

ܗܕܝ : ܥܒܸܕ ܠܚܘܫܒܢܐ ܐܠܗ ܟܠ ܚܕ ܕܐܬܝܐ :

(٥) ٨ ١٩٥

٨ ٣٩٥+

(٦) ٧٦ ٥٤٣

٤ ٣٦٤+

(٧) ٧٩٥ ٣٢٢

٣٠٥ ٦٩٣+

(٨) ٢ ١٧٦ ٧٢٥

٤٢٣ ٠٣٦+

(٩) ١ ٠٨٧ ٥٤٣

٨ ٩١٣ ٣٥٧+

(١٠) ٨ ٧٥٢ ٤٦٣

٢ ١٤٣ ٥٣٧+

(١١) ٥ ٩٨٧

٢٤ ٠٠٧

٥٠ ٠٢٤+

(١٢) ١٧٦ ١٢٥

١٥٠ ٥٣٢

٩٤٤ ٢٧٣+

(١٣) ١١ ٢٧٥ ١٢٣

٢٧ ٠٢٢ ٣٤٢

٣ ٠٠٢ ٩٦٥+

ܗܠܟܐ : ܩܪܝ ܒܫܘܪܒܐ ܘܦܫܘܩ ܠܡܘܬܒܐ ܕܐܬܝܐ :

ܚܘܝܐ ܕܡܢܝܢܐ ܐܠܗ ܐܘܪܥܬܐ ܕܟܘܪܝ ܐܪܥܐ ܐܝܟ ܣܘܟܟܐ ܒܫܢܬܐ ١٩٨٤ ܡ ܐܝܟ ܕܝܠܗ ܦܠܛܐ ܒܫܘܪܒܐ ܕܐܬܝܐ :

ܐܬܪܐ	ܟܘܪܐ	ܚܛܐ	ܣܥܪܐ	ܪܘܙܐ
ܡܢܝܢܐ	١٥ ٧٤٦ ٧٠٠	٦ ٦٨٧ ٨٠٠	٣ ٥١٤ ٩٠٠	٨٦٢ ٣٠٠

(١٤) ܐܝܟܘ ܐܬܪܐ ܕܡܫܬܡܠܝܐ ܕܡܢܝܢܐ ܐܝܟ ܡܢܝܢܐ ܘܐܝܟܘ ܘܟܡܐ ܡܢܝܢܐ ܒܐܘܪܥܬܐ ܕܟܘܪܝ ܐܪܥܐ ܒܫܢܬܐ ١٩٨٤ ܡ ؟

(١٥) ܝܪܚܐ ܠܚܘܒܪܐ ܕܡܫܡܫܢܘܬܐ ܕܫܬܝܬܐ ܕܝܘܠܦܢܐ ܕܝܘܡܐ ܕܟܬܒܐ ܡܢ ܚܘܫܒܢܐ ܘܡܕܥܐ ܫܢܬܐ ١٩٨٤ ܡ

(١٦) ܝܪܚܐ ܠܚܘܒܪܐ ܕܡܫܡܫܢܘܬܐ ܕܫܬܝܬܐ ܕܝܘܠܦܢܐ ܕܝܘܡܐ ܕܟܬܒܐ ܡܢ ܬܘܪܓܡܐ ܘܐܬܘܬܐ ܫܢܬܐ ١٩٨٤ ܡ

(١٧) ܝܪܚܐ ܠܚܘܒܪܐ ܕܡܫܡܫܢܘܬܐ ܕܫܬܝܬܐ ܕܝܘܠܦܢܐ ܕܝܘܡܐ ܕܟܬܒܐ ܡܢ ܚܘܫܒܢܐ ܘܡܕܥܐ ܘܬܘܪܓܡܐ ܫܢܬܐ ١٩٨٤ ܡ

(١٨) ܝܪܚܐ ܠܚܘܒܪܐ ܕܡܫܡܫܢܘܬܐ ܕܫܬܝܬܐ ܕܝܘܠܦܢܐ ܕܝܘܡܐ ܕܟܬܒܐ ܠܐ ܫܢܬܐ ١٩٨٤ ܡ

٣ - ٢ ܚܘܣܪܐ

ܡܢܟܬܐ ܕܢܘܠܦ ܠܡܫܘܚܬܐ ܒܝܢ ܚܘܣܪܐ ܘܟܘܢܫܐ، ܢܫܬܡܫ ܠܟܘܢܫܐ ܐܝܟ ٩ + ٨ = ١٧ ܐܠܐ ܢܚܙܐ ܢܫܬܡܫ ܒܚܘܣܪܐ ܐܝܟ ܕܡܚܘܐ ܠܗ ܠܠܒܐ:

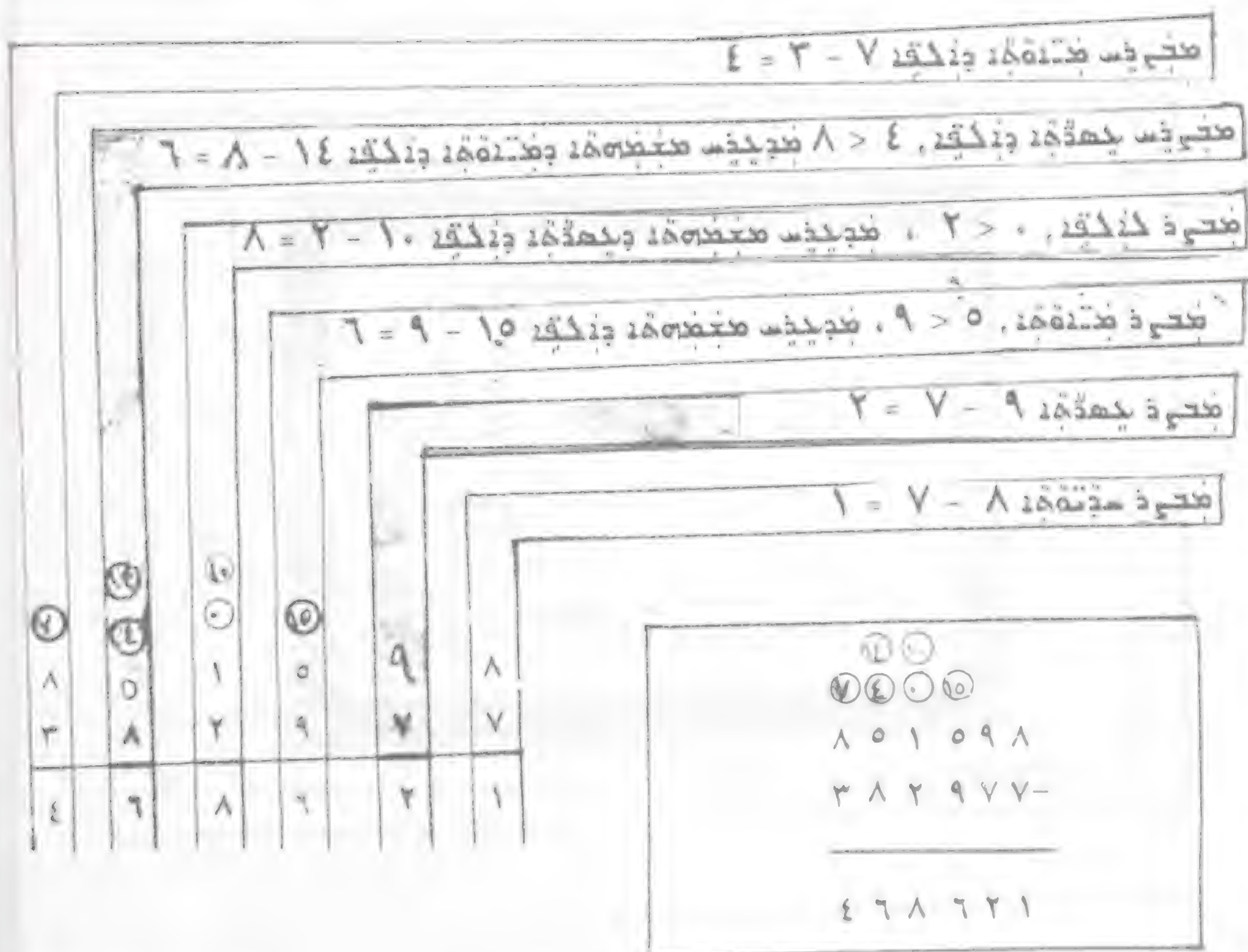
٩ + ٨ = ١٧ = ٨ - ١٧ = ٩

٩ + ٨ = ١٧ = ٨ - ١٧ = ٩

ܒܗܕ ܕܪܓܐ، ܠܐ ܡܬܚܫܒܐ ١٤ - ٨ ܐܠܐ ܡܫܘܚܬܐ. ܡܫܬܐܠ ܡܢ ܕܢܐ: □ + ٨ = ١٤، ܘܗܝ ܕܢܦܩ ܠܡܠܝܐ ܢܦܩܐ ܕܟܘܢܫܐ ܡܢܝܢ: ٦ + ٨ = ١٤. ܘܠܝܕܗ ١٤ - ٨ = ٦ .... ܘܗܟܢܐ.

ܠܐ ܢܘܗܓܠ ܠܡܠܦܢܐ ܐܠܐ ܒܕܪܓܐ (٢ - ١) ܒܡܫܡܫܢܐ ܡܚܫܒܢܐ ܘܐܝܟ ܕܪܓܐ:

ܡܫܘܚܬܗ ܡܸܢܝܵܢܵܐ ܕܬܲܠܡܝܼܕܹ̈ܐ ܕܡܲܕܪ̈ܫܝܵܬܵܐ ܠܐܘܪܚܝܬܐ ܒܫܲܢ̄ܬܵܐ ١٩٧٥ ܝܠܗ ٥٩٨ ٨٥١ ܬܲܠܡܝܼܕܵܐ. ܘ
ܡܸܢܝܵܢܵܐ ܕܡܲܕܪ̈ܫܝܵܬܵܐ ܡܢ ܐܝܘܡܢܐ ܗܘܐ ٩٧٧ ٣٨٢ ܬܲܠܡܝܼܕܵܐ ، ܟܡܵܐ ܒܨܝܪ ܡܸܢܝܵܢܵܐ ܕܬܲܠܡܝܼܕܹ̈ܐ ܒܫܢܬܐ
ܝܲܬܝܼܪܵܐ ܡܢ ܡܲܕܪ̈ܫܝܵܬܵܐ ܥܠ ܐܝܘܡܢܐ؟
ܒܡܘܚܪܐ ܕܡܸܢܝܵܢܵܐ ܕܬܲܠܡܝܼܕܹ̈ܐ ܒܫܢܬܐ ܝܲܬܝܼܪܵܐ ٨٥٢ ܐܠܦܐ (ܡܩܘܪܒܐ ܠܡܘܪܟܒܐ ܐܠܦܐ)
ܘܡܸܢܝܵܢܵܐ ܕܬܲܠܡܝܼܕܹ̈ܐ ܐܝܘܡܢܐ ٣٨٣ ܐܠܦܐ (ܡܩܘܪܒܐ ܠܡܘܪܟܒܐ ܐܠܦܐ)
ܒܨܝܪ ܡܸܢܝܵܢܵܐ ܕܬܲܠܡܝܼܕܹ̈ܐ ܥܠ ܐܝܘܡܢܐ ٤٦٩ ܐܠܦܐ (ܡܩܘܪܒܐ ܠܡܘܪܟܒܐ ܐܠܦܐ)
ܗܫܐ ܡܸܢܝܵܢܵܐ ܫܘܚܠܦܐ ܕܬܲܠܡܝܼܕܹ̈ܐ ܠܐܘܪܚܝܬܐ ܝܲܬܝܼܪܵܐ ܥܠ ܐܝܘܡܢܐ ܒܟܡܐ ܝܠܗ ܐܝܟ
ܕܡܚܘܝܐ ܬܠܬܐ ܠܬܚܬܐ !



ܡܚܣܪܢܘܬܐ ٥٩٨ ٨٥١ (ܡܚܣܪܐ ܡܢܗ) ܘ ٩٧٧ ٣٨٢ (ܡܚܣܪܐ) . ܘ ٦٢١ ٤٦٨ ܡܚܣܪܢܘܬܐ ܝܠܗ
(ܦܘܠܓܐ ܕܡܚܣܪܐ).

ܡܬܠܐ (١)

[illegible] :

= ٥٢١ ٨٨٠ − ٧ ٣٩٩ ٠٧٥

ܫܪܝܐ :

٦ ١٣ ٨ ٩ ١٧
٧ ٣٩٩ ٠٧٥
٥٢١ ٨٨٠ −
٦ ٨٧٧ ١٩٥

[illegible] ٧ ٣٩٩ = ٧ ٣٩٩ ٠٧٥

[illegible] ٥٢٢ = ٥٢١ ٨٨٠

[illegible] ٦ ٨٧٧ [illegible] = ٠٠٠ [illegible]

[illegible] = ٦ ٨٧٧ ١٩٥

[illegible] :

٦ ٨٧٧ ١٩٥
٥٢١ ٨٨ +
———
٧ ٣٩٩ ٠٧٥

٧ ٣٩٩ ٠٧٥
٥٢١ ٨٨٠ −
———
٦ ٨٧٧ ١٩٥

ܡܬܠܐ (٢)

[illegible] ٥٩ ٣٧٤ ٨٦٣ [illegible] ٧٠ ٤٧٢ ٨٦٧ [illegible] ?

ܫܪܝܐ :

[illegible] ٥٩ ٣٧٤ ٨٦٣ < ٧٠ ٤٧٢ ٨٦٧

[illegible]

= ٧٠ ٤٧٢ ٨٦٧ − ٥٩ ٣٧٤ ٨٦٣ = ١١ ٠٩٨ ٠٠٤ [illegible]

ܡܬܠܐ (٣)

ܝܘܡܢܐ ܐܝܬܘܗܝ ܕܒܓܕܐܕ ٥٠٠ ܐܠܦܐ ܡܢܝܢܐ ܕ ١٧٩١٠٠٠ ܢܦ̈ܫܬܐ ، ܘܒܪܫܝܬܗ ܡܢܝܢܐ ܢܦܝܫܐ ܒܫܘܬܐܣܗ ٢٢٤٠٠٠ ܢܦ̈ܫܬܐ . ܚܫܘܒ ܡܢܝܢܐ ܕܟܠܗ.

ܫܪܝܐ :

ܡܢܝܢܐ ܕܩܕܡܝܐ ܕܢܦܫ̈ܬܐ	= ١ ٧٩١ ٠٠٠	ܢܦ̈ܫܬܐ
ܢܝܫܐ ܐܝܟܐ ܢܦܝܫܐ ܒܫܘܬܐܣܗ	= ٢٢٤ ٠٠٠	ܢܦ̈ܫܬܐ
ܡܢܝܢܐ ܕܢܦ̈ܫܬܐ ܟܠܗ	= ١ ٧٩١ ٠٠٠ + ٢٢٤ ٠٠٠	
	= ٢ ٠١٥ ٠٠٠	ܢܦ̈ܫܬܐ

ܬܘܪ̈ܓܡܐ (٣ - ٢)

ܐ : ܫܘܚܠܦ ܡܢܝܢ̈ܐ ܘܥܒܕ ܬܘܪ̈ܓܡܐ ܕܡܢܝܢ̈ܐ.

(١) ١ ٦٩٧ ⟵ ١ ٧٠٠
- ٤٣٤ ⟵ - ٤٠٠

(٢) ٣ ١٨٧ ⟵ ٣ ٢٠٠
- ٩٩ ⟵ -

(٣) ٧٣ ١٥٢ ⟵
- ٣٢ ٨١٧ ⟵

(٤) ٥٠ ٠٠٠ ⟵
- ٦٧٤ ⟵

ܒ : ܚܫܘܒ ܡܢܝܢ̈ܐ ܕܠܬܚܬ ܒܥܒܕܐ ܕܬܘܪ̈ܓܡܐ:

(٥) ٢٠ ١٢٠
- ١٣ ٥١٤

(٦) ١ ٢١٤ ٣٥٨
- ٥١٣ ٠٧٨

(٧) ٨ ٢٤٠ ١٠٠
- ٧ ٢٠٨ ٤١٢

ܬܡܢܝܐ : ܐܓܡܘܪ ܠܡܘܬܒܐ ܗܠܝܢ ܕܠܬܚܬ :

(٨) ٥٧ ٩٨٤	(٩) ٦٢٦ ٩١٠	(١٠) ١ ٤٣٧ ٥١٦
+ ٩٤٣ ٠٢٦	− ١٩٠ ٠٣٧	+ ١٧٩ ١١٨
☐	☐	☐
(١١) ٣ ٧١٥ ١١٠	(١٢) ١ ٢٠٧ ٠٠٠	(١٣) ٥٢١ ٩٠٧
− ٣٩٩ ٠٧٥	− ١٩٩ ٩٦٠	+ ٦٨٨ ١١٤
☐	☐	☐

ܐܪܒܥܐ : ܫܪܝ ܠܡܫܐܠܬܐ ܕܠܬܚܬ :

(١٤) ܡܢܝܢܐ ܕܐܢܫܐ ١ ٥٨٣ ١٧٢ ܢܦܫܬܐ. ܘܡܢܝܢܐ ܕܐܢܫܐ ܕܐܬܝܠܕܘ ܝܬܝܪ ܡܢ ܡܢܝܢܐ ܩܕܡܝܐ ܒ ١١٩ ٨٧٥ ܢܦܫܬܐ. ܐܓܡܘܪ ܡܢܝܢܐ ܕܡܢܝܢܐ ܕܐܢܫܐ ܚܕܬܐ.

(١٥) ܡܫܬܠܡܢܘܬܐ ܕܡܕܝܢܬܐ ܕܐܬܩܢܬ ܡܢ ܐܢܫܐ ܗܘܬ ١٦٤٣٧٥٠ ܢܦܫܬܐ. ܐܢ ܡܫܬܠܡܢܘܬܐ ܕܡܕܝܢܬܐ ܗܘܬ ܒܫܢܬܐ ٤٧٥ ٩٨٩ ܢܦܫܬܐ، ܟܡܐ ܗܘܬ ܡܫܬܠܡܢܘܬܐ ܕܡܕܝܢܬܐ ܚܕܬܐ؟

(١٦) ܡܫܬܠܡܢܘܬܐ ܕܡܕܝܢܬܐ ܚܕܐ ܒܫܢܬܐ ܗܘܬ ٤٩٩٠٠٠٠ ܢܦܫܬܐ ܒܫܢܬܐ ܕ ١٩٨٤ ܡ. ܘܡܫܬܠܡܢܘܬܐ ܗܘܬ ٣ ٢٤٤ ٩٧١ ܢܦܫܬܐ ܒܫܢܬܐ ܕ ١٩٨٥ ܡ. ܐܝܢܐ ܡܢܗܝܢ ܝܬܝܪܐ ܗܘܬ؟ ܘܟܡܐ ܗܘܬ ܦܘܪܫܐ ܕܒܝܢܬܗܝܢ؟

(١٧) ܡܫܬܠܡܢܘܬܐ ܕܡܘܬܒܐ ܗܘܬ ٩٦٩٤٨٦ ܕܝܢܪܐ، ܘܡܫܬܠܡܢܘܬܐ ܕܡܘܬܒܐ ܕܬܪܝܢ ܗܘܬ ٥٨٤ ٦٩٥ ܕܝܢܪܐ. ܐܢ ܡܫܬܠܡܢܘܬܐ ܕܬܠܬܐ ܗܘܬ ١٢٠٥ ٤١٧ ܕܝܢܪܐ. ܐܓܡܘܪ ܡܫܬܠܡܢܘܬܐ ܕܟܠܗܝܢ ܕܝܢܪܐ.

(١٨) ܐܢ ܗ̇ܘ ܡܢܝܢܐ ܕܡܕܝܢܬܐ ܕܥܡܘܪ̈ܐ ܡܢ ܟܠܗ̇ ܕܡܕܝ̈ܢܬܐ ܕܐܬܪܐ ܕ ٥ ١٩٢ ٨٠٠ ܒܢܝܫ̈ܐ.
ܐܢ ܡܢܝܢܗ ܕܥܡܘܪ̈ܐ ܕܡܕܝܢܬܐ ١٢٠ ٥٩٨ ܒܢܝܫ̈ܐ. ܟܡܐ ܐܝܬܝܗܘܢ ܥܡܘܪ̈ܐ ܕܡܕܝܢܬܐ ܗ̇ܝ
ܕܬܪܬܝܢ ٨٥٠ ٨٨٥ ܒܢܝܫ̈ܐ؟

(١٩) ܡܢܝܢܗ ܕܡܕܝܢ̈ܬܐ ܕܐܬܪܐ ܗ̇ܘ ܡܢܝܢܐ ܕܥܡܘܪ̈ܐ ܟܠܗܘܢ ܕܗ̇ܘ ١ ٦٥٤ ٩٨٠ ܒܢܝܫ̈ܐ،
ܘܡܢܝܢܗ ܕܡܕܝܢ̈ܬܐ ܐܚܪ̈ܢܝܬܐ ܕܐܬܪܐ ܕܝܠܗ ١ ٠٠٩ ٠٠٠ ܒܢܝܫ̈ܐ. ܟܡܐ ܝܬܝܪ ܡܕܝܢ̈ܬܐ
ܗ̇ܘ ܐܬܪܐ؟ ܘܟܡܐ ܥܡܘܪ̈ܐ ܟܠܗ؟

ܐܝܟܢܐ ܥܡܘܪ̈ܐ ܕܡܕܝܢ̈ܬܐ ܕܒܐܬܪܐ ܗ̇ܢܐ ܡܢܝܢܗܘܢ ܒܢܝܫ̈ܐ.

(٢٠) ܕܝܠܗܘܢ ܗ̇ܘ ܡܢܝܢܐ ܕܥܡܘܪ̈ܐ ܕܐܬܪ̈ܘܬܐ ܬܠܬܐ ܕܥܡܘܪ̈ܐ ܕ ٤١٤ ١٤٩ ٣٧٤ ܒܢܝܫ̈ܐ، ܐܢ
ܕܝܠܗܘܢ ܗ̇ܘ ܡܢܝܢܐ ܕܥܡܘܪ̈ܐ ١٢٠ ١٣٥ ܒܢܝܫ̈ܐ، ܘܕܝܠܗܘܢ ܗ̇ܘ ܐܚܪܢܐ ܕܥܡܘܪ̈ܐ ܕ ١٧٨ ٠١٦
ܒܢܝܫ̈ܐ. ܟܡܐ ܕܝܠܗܘܢ ܕܐܬܪܐ ܬܠܝܬܝܐ؟



ܦܣܘܩܐ ܕܬܪ̈ܝܢܐ

ܥܘܦܦܐ

1-1 ܥܘܦܦܐ ܒ ١٠ ، ١٠٠ ، ١٠٠٠ ܘܡܟܦܠܬܗܘܢ

٣ ܐܠܦ̈ܐ ١٠٠٠ × ٣ = ٣٠٠٠ =	٧ ܡܐܘ̈ܬܐ ١٠٠ × ٧ = ٧٠٠ =	٦ ܥܣܪ̈ܝܬܐ ١٠ × ٦ = ٦٠ =
٣٠٠٠ = ١٠٠٠ × ٣	٧٠٠ = ١٠٠ × ٧	٦٠ = ١٠ × ٦

ܛܘܦܣܐ (١)

ܐܫܟܚ ܠܗܘ̈ܝܐ :

٦٠ × ٨ (ܐ) ٧٠٠ × ٩ (ܒ) ٣٠٠٠ × ٧ (ܓ)

ܫܪ̈ܝܐ :

(ܐ) ٦٠ × ٨ = ٨ × ٦ ܥܣܪ̈ܝܬܐ = ٤٨ ܥܣܪ̈ܝܬܐ = ٤٨٠

ܗܘܐ ܘܒܝܢ ٦٠ × ٨ = ٤٨٠

(ܒ) ٧٠٠ × ٩ = ٩ × ٧ ܡܐܘ̈ܬܐ = ٦٣ ܡܐܘ̈ܬܐ = ٦٣٠٠

ܗܘܐ ܘܒܝܢ ٧٠٠ × ٩ = ٦٣٠٠

(ܓ) ٧ × ٣ ٠٠٠ = ٧ × ٣ ܐܠܦ̈ܐ = ٢١ ܐܠܦ̈ܐ = ٢١ ٠٠٠

ܗ̈ܘܝ ܡܟܝܠ ٧ × ٣ ٠٠٠ = ٢١ ٠٠٠

ܦܘܩܕܢܐ (٢)

ܚܫܘܒ ܠܗܘ̈ܢܐ

(ܐ) ٩ ٢٣٠ × ٤ (ܒ) ٥ × ٩ ٣٠٠ (ܓ) ٧ × ١٥ ٠٠٠

ܫܪܝܐ :

(ܐ) ٤ × ٩ ٢٣٠ = ٤ × (٩٢٣ × ١٠) = (٤ × ٩٢٣) × ١٠ لماذا ؟

= ٣٦٩٢ × ١٠ = ٣٦ ٩٢٠.

(ܒ) ٥ × ٩ ٣٠٠ = ٥ × (٩٣ × ١٠٠) = (٥ × ٩٣) × ١٠٠

= ٤٦٥ × ١٠٠ = ٤٦ ٥٠٠.

(ܓ) ٧ × ١٥ ٠٠٠ = ٧ × (١٥ × ١ ٠٠٠) = (٧ × ١٥) × ١ ٠٠٠

= ١٠٥ × ١ ٠٠٠ = ١٠٥ ٠٠٠

ܦܘܩܕܢܐ (٣)

[illegible] ٤٨ [illegible] ٢٠٠ [illegible]

[illegible] ١٠٠ [illegible]

[illegible]

[illegible] ([illegible])

[illegible] :

- [illegible]

[illegible]

- [illegible] :

[illegible] ([illegible]) [illegible]

[illegible] ([illegible])

- ܢܥܒܕ ܠܡܢܝܢܐ.

- ܢܣܒ ܫܪܝܘܬܐ ܕܡܢܝܢܐ.

ܗܫܐ ، ܒܕܪܘܐ ܡܬܠܐ .

ܝܕܝܥܬܐ : ܡܢܝܢܐ ܕܦܠܚܐ (٤٨) ܦܠܚܐ.

ܐܓܪܐ ܕܟܠ ܦܠܚܐ ٢٠٠ ܕܝܢܪܐ

ܦܘܪܥܢܐ ܕܐܘܪܚܐ ܕܟܠ ܦܠܚܐ ١٠٠ ܦܠܣܐ.

ܡܬܒܥܢܐ : ܐܓܪܐ ܕܟܢܘܫܐ.

ܘܦܘܪܥܢܐ ܕܐܘܪܚܐ ܕܟܢܘܫܐ.

ܘܡܫܘܚܬܐ ܕܡܫܒܐ ܗܘ ܚܘܫܒܐ ܕܟܠܗ ܡܫܘܚܬܐ ܕܡܘܦܩܐ.

ܐܝܟ ܡܢܝܢܐ ܗܘܐ ܠܚܘܫܒܐ :

$$48 \times 200 = \square$$

$$48 \times 100 = \square$$

ܚܘܫܒܐ :

ܐܓܪܐ ܕܟܢܘܫܐ = ٤٨ × ٢٠٠ = ٩٦٠٠ ܕܝܢܪܐ

ܦܘܪܥܢܐ ܕܐܘܪܚܐ = ٤٨ × ١٠٠ = ٤ ٨٠٠ ܦܠܣܐ

ܕܘܪܫܐ (٤ - ١)

ܚܕ : ܚܫܘܒ ܐܝܟ ܡܬܠܐ ܗܢܐ :

(١) ٢٥ × ٩ = ٢٥ × ١٠ - ٢٥ ܠܡܢܐ ؟

= ٢٥٠ - ٢٥ = ٢٢٥

(٢) ١٤٣ × ٩٩ = ١٤٣ × ١٠٠ - ☐

= ☐ - ☐ = ☐

(٣) ٨٦ × ٩٩٩ = ☐ × ١٠٠٠ - ☐

= ☐ - ☐ = ☐

(٤) ٤٢٥ × ٩٨ = ☐ × ١٠٠ − ☐

= ☐ − ☐ = ☐

(٥) ١٢٥ × ٩٩٨ = ☐ × ١ ٠٠٠ − ☐

= ☐ − ☐ = ☐

(٦) ٢٢٥ × ١٠٠٢ = ☐ × ١ ٠٠٠ + ☐ × ٢

= ☐ + ☐ = ☐

ܫܬܳܐ : ܐܰܥܦܶܦ ܠܗܘܿܢܳܐ :

(١) ١٠ × ٩ (٢) ٩ × ١٠ (٣) ١٠٠ × ٥ (٤) ٧ × ١٠٠

(٥) ١ ٠٠٠ × ٨ (٦) ٣ × ١ ٠٠٠ (٧) ١٠٠ × ٩ (٨) ٥ × ١٠٠

ܫܒ݂ܥܳܐ : ܡܰܠܝ :

(١) ١٧ × ☐ = ١٧٠ (٢) ☐ × ١٠٠ = ١ ٥٠٠

(٣) ☐ × ١٠ = ١٤٧٠ (٤) ☐ × ١٤ = ١٤ ٠٠٠

(٥) ٦٠ × ☐ = ٦ ٠٠٠ (٦) ٣٦٤ × ١٠ = ☐

(٧) ١٠ × ☐ = ٩٠٠ (٨) ☐ × ١٠ = ٦ ٩٠٠

(٩) ١٠ × ١٥٠ = ☐ (١٠) ☐ × ٢٠٠ = ٢٠ ٠٠٠

ܬܡܳܢܝܳܐ : ܐܰܥܦܶܦ ܠܗܘܿܢܳܐ :

(١) ٤١٣ × ٢٠ (٢) ٣٠ × ٧٥٤ (٣) ٦٢٠ × ٥٠

(٤) ٧٥٩ × ١٠٠ (٥) ١ ٠٥١ × ١٠ (٦) ٢٧١ × ٧٠٠

(٧) ١ ٠٥٠ × ١ ٠٠٠ (٨) ٢١٠ × ٢ ٠٠٠ (٩) ١ ٢٠٠ × ٤ ٠٠٠

ܬܫܥܳܐ : ܡܰܠܝ :

(١) ٥ × ☐ = ٣٠٠ (٢) ٤٠ × ☐ = ٤ ٠٠٠

(٣) ☐ × ٧٠ = ٤٢٠ ٠٠٠ (٤) ٣٠٠ × ☐ = ١٢ ٠٠٠

(٥) ☐ × ٨٠٠ = ٢٤ ٠٠٠ (٦) ١ ٠٠٠ × ☐ = ٥ ٠٠٠

(٧) $\square \times ١\,٠٠٠ = ٧٥٠\,٠٠٠$ (٨) $\square \times ٤٠٠ = ٢\,٨٠٠$

(٩) $\square = ٩٠٠ \times ٦٠$ (١٠) $\square \times ٨\,٠٠٠ = ٨\,٠٠٠$

(١١) $\square \times ٧\,٠٠٠ = ٢١\,٠٠٠$ (١٢) $٩٠ \times \square = ١٠\,٠٠٠$



ܬܪܐ : ܫܪܝ ܠܫܘܐܠܐ ܕܐܬܝ :

١ - ܐܝܬ ܚܕ ܩܘܛܝܐ ٧٠٠ ܓܪ̈ܡܐ. ܟܡܐ ܐܝܬ ܕܩܘܛܝ̈ܐ ܡܨܘܬ̈ܐ ܠܗ ܕܥܒܕܐ ܕܠܘܩܒܠ ܩܘܢܛܐ ܟܝܠܘܓܪ̈ܡܐ ؟

٢ - ܐܢ ܛܝܡܐ ܕܚܕ ܩܘܛܝܐ ܝܠܗ ٣٠٠ ܦܠܣ̈ܐ. ܟܡܐ ܒܥܒܕܐ ܛܝܡܐ ܕܐܪܒܥܐ ܩܘܛܝ̈ܐ؟

٣ - ܡܢ ܟܡܐ ܕܩܝܛܐ ܕܝܘܡܐ ٣٢ ܫܥܬ̈ܐ . ܚܫܘܒ ܟܡܐ ܕܩܝܩ̈ܐ ܟܠܗܘܢ.

٤ - ܐܢܬܘܢܐ ܠܗܘ ٧٢ ܐܠܦ̈ܐ ܡܢ ܐܪܒܥܐ ܩܠܝܠ ܕܚܕ ܕܐܠܦܐ ١٠٠ ܓܪ̈ܡܐ. ܟܡܐ ܐܝܬ ܕܐܢܬܘܢܐ؟

٥ - ܟܡܐ ܒܥܒܕܐ ܛܝܡܐ ܕܬܒܥܐ ܕ ٦ ܣܦܪ̈ܐ ܐܢ ܛܝܡܐ ܕܚܕ ܣܦܪܐ ܝܠܗ ٢٠ ܕܝܢܪ̈ܐ؟

٦ - ܟܡܐ ܡܟܝܢܐ ٢٠ ܕܝܢܪ̈ܐ ܟܠ ܐܠܦܐ ܕܡܟܝܢܬܐ ܕܥܒܕ ܠܗ. ܐܢ ܥܒܕ ܠܗ ܐܚܪ ܡܟܝܢܬܐ ٣٠٠ ܐܠܦ̈ܐ ܕܡܟܝܢܬܐ، ܟܡܐ ܡܩܒܠ ؟

٧ - ܟܠ ܝܘܡܐ ܐܣܦܘܪܐ ܡܥܒܕܐ ܡܫܘܚܬܗ ١٧٥ ܕܝܢܪ̈ܐ، ܘܡܫܬܩܠ ٢٠ ܕܝܢܪ̈ܐ. ܟܡܐ ܩܠܝܠ ܝܘܡܐ ܡܥܒܕܐ ܡܫܬܩܠܢܐ ؟

٨ - ܐܝܬ ܦܠܓܐ ܕܐܪܥܐ ܕܒܝܬܐ ܡܫܘܚܬܗ ٧ ܡܬܪ̈ܐ. ܚܫܘܒ ܠܡܫܘܚܬܐ ܕܐܪܥܐ ܕܒܝܬܐ ܐܢ ܛܝܡܐ ܕܐܪܥܐ ܕܚܕ ܡܬܪܐ ܝܠܗ ٩٠ ܕܝܢܪ̈ܐ.

٩ - ܟܡܐ ܕܝܘܡܐ ܟܠܗܘܢ ١٧ ܫܥܬ̈ܐ، ܟܡܐ ܟܠܗ ܫܥܬ̈ܐ؟ ܘܟܡܐ ٢٠٠ ܫܥܬ̈ܐ ܡܢ ܕܝܘܡܐ ܟܠܗܘܢ ؟

١٠ - ܡܟܝܢܬܐ ١٧٥ ܐܢܬܘܢܐ ܕܡܫܘܚܬܐ، ܟܠ ܚܕ ܐܢܬܘܢܐ ٨٠٠ ܐܠܦ̈ܐ. ܘܐܢ ܗܘ ܡܟܝܢܬܐ ܟܠܗ ܕܚܕ ܐܠܦܐ ٢٠ ܦܠܣ̈ܐ. ܚܫܘܒ ܠܛܝܡܐ ܕܡ ܛܝܡܐ ܕܡܟܝܢܬܐ ܢܦܩܐ ٢٠٠٠ ܕܝܢܪ̈ܐ.

٤ - ٢ ܟܘܦܠܐ ܒܡܢܝܢܐ ܡܫܪܝܐ ܕܡܢܘܬ ܡܢ ܚܕ ܕܡܢܐ

ܟܐ ܗܘܐ :

```
  ٢٣٦
   ٤ ×
 ------
    ؟
```

٢٣٦	٢٣٦
٢٣٦	٢٣٦

ܡܢܝܢܢ ܫܘܬܦܐ ܡܢ :

٦ ܟܘܦܠܐ ܕܐܪܒܥܐ ܓܢ̈ܐ =	٦ × ٤	= ٢٤
٣٠ ܟܘܦܠܐ ܕܐܪܒܥܐ ܓܢ̈ܐ =	٣٠ × ٤	= ١٢٠
٢٠٠ ܟܘܦܠܐ ܕܐܪܒܥܐ ܓܢ̈ܐ =	٢٠٠ × ٤	= ٨٠٠
ܫܘܟܠܐ ܕܟܘܦܠܐ = ܟܘܦܠܐ ܕܟܠܝܗ		= ٩٤٤

ܘܗܐ ܕܐܗܐ ܐܝܟ ܡܟܬܒܬܐ ܠܕܝܕܗ ܦܫܝܛܬܐ :

٢٣٦ ٤ × ٤	٢٣٦ ٤ × ٤٤	٢٣٦ ٤ × ٩٤٤

ܕܘܪܫܐ (٤ - ٢)

ܚܕ : ܫܪܝ

(١)	(٢)	(٣)	(٤)
٣٩ ٣ × □□٧	٤٣ ٨ × □□٤	١٢٩ ٤ × □□٦	٣٢٨ ٥ × □□□□

ܦܠܘܚ : ܡܠܝ ܠܕܘܟܝܬ̈ܐ ܣܦܝܩܬ̈ܐ ܕܐܬܝܐ :

(١)	(٢)	(٣)	(٤)
٤٥	٩٨	١٠١٤	٢٠٥
× ٥	× ٢	× ٧	× ٩
☐	☐	☐	☐

(٥)	(٦)	(٧)	(٨)
٤١٣	٥٦٣	٧ ٢٥٠	١٣ ٧٢٣
× ٧	× ٨	× ٦	× ٥
☐	☐	☐	☐

ܦܠܚܐ : ܫܪܝ ܠܡܫܐ̈ܠܬܐ ܕܐܬܝܐ :

١ - ܐܝܬ ٩ ܫܢܐ ܠܗ ܟܡܐ ܐܒܐ ܡܙܒܢܬܐ ܠܟܬܒ̈ܐ ܕܡܕܪܫܬܐ ، ܐܢ ܒܟܠ ܫܢܐ ܐܝܬ ١٤٧ ܟܬܒ̈ܐ، ܟܡܐ ܟܬܒ̈ܐ ܕܡܕܪܫܬܐ ܐܝܬ ܠܗ ܟܡܐ ܐܒܐ ؟

٢ - ܡܢܝܢܬܐ ܥܠܘ ܘܫܢܬܐ ܕ ٢٠٠٠ ܟܬܒ̈ܐ ܒܐܪܒܥ ܗܘ ܕܡܠܘܐ ܟܡܐ ܐܒܐ ܡܬܦܪܫܐ. ܘܗܫܐ ܥܠܘ ܟܡܐ ܐܒܐ ܒܚܕ ܡܢ ܝܘܡܐ ٥٢٥ ܟܬܒ̈ܐ ܒܟܠ ܫܒܘܥܐ. ܐܝܟܐ ܡܫܟܚܐ ܗܘܐ ܕܟܡܐ ܐܒܐ ܡܢܝܢܬܐ ܡܬܦܪܫܐ ܒܐܘܪܚܐ ܐܚܪܬܐ، ܠܡܢܐ؟ (ܡܚܘܐ ܐܪܒܥ ٤ ܫܒܘܥܐ ܐܚܪܢܐ)

٣ - ܐܪܡܝܬܐ ܦܠܚܘ ٥٧٣٥ ܕܝܢܪ̈ܐ. ܐܢ ܐܝܬ ܗܘܐ ܐܚܪ ܡܢ ܡܠܟܬܐ ٥٤٠٠ ܕܝܢܪ̈ܐ. ܐܝܟܐ ܡܢܐ ܕܐܝܢ ٩ ܐܪܡܝܬܐ ܡܢ ܐܪܥܐ ܒܐܘܪܚܐ ܘܠܡܢܐ ؟

ܫܩܘܠ ܡܢ ܦܠܚܘܬܐ ܕܡܘܬܒܐ ܒܫܘܠܡܬܐ ܕܦܠܚܐ ܕܟܠܗ ܐܪܡܝܬܐ.

٤ - ٣ ܒܘܫܠܐ ܒܡܬܪ̈ܬܐ ܕܡܘܗ ܡܚܫܒܬܐ ܡܢ ܦܠܘܚ ܐܡܬܐ :
ܦܠܓܐ ܕܦܬܟܐ ܕܐܚܪܝܬܐ ٧٨ ܠܐܡܝܐ. ܟܡܐ ܦܠܓܐ ܕ ٢٢ ܦܬܟܐ ؟

٢٢ = ٢٠ + ٢

ܦܣܟܐ ܕ ٢٢ ܡܗܬܝܐ = ܦܣܟܐ ܕܗܕܐ ܡܗܬܝܐ + ܦܣܟܐ ܕ ٢٠ ܡܗܬܝܐ .

ܦܣܟܐ ܕ ٢٢ ܡܗܬܝܐ =	ܦܣܟܐ ܕ ٢٠ ܡܗܬܝܐ =	ܦܣܟܐ ܕܗܕܐ ܡܗܬܝܐ =
١٧٤	٨٧	٨٧
١٧٤٠ +	٢٠ ×	٢ ×
ܚܕܡܐ ١٩١٤	ܚܕܡܐ ١٧٤٠	ܚܕܡܐ ١٧٤

ܬܘܒ ܘܚܙܝ :

٨٧	٨٧	٨٧
٢٠ ×	٢ ×	٢٢ ×
		١٧٤
		١٧٤٠

ܘܒܐܘܪܚܐ ܐܚܪܬܐ :

٨٧	١١	٨٧
٢٢ ×	٢٢ ×	٢٢ ×
١٧٤	١١٤	
١٧٤٠		

ܕܠܐ ܚܫܒܐ ܕܦܘܫܫܐ ܡܩܪܒܢܐ ܠܡܘܬܒܐ ܬܘܒܠ ܡܫܘܕܥ ܠܡܫܘܚܬܐ ܕܡܚܠܬܐ ܕܚܘܫܒܐ .

ܒܡܘܫܚܬܐ ܕܢܩܒܬܐ :

٨٧ = ٩٠ ܠܡܩܪܒܝܢ ܝܗܘܐ

٢٢ = ٢٠ ܠܡܩܪܒܝܢ ܝܗܘܐ

ܦܘܫܫܐ ܡܩܪܒܢܐ ܠܡܘܬܒܐ ٢٠ × ٩٠ = ١٨٠٠ ܗܝܘ ܠܡܫܘܚܬܐ ܕܡܘܬܒܐ

ܕܘܪܫܐ

ܐ. ܚܕ : ܫܠܡ

(٣)	(٢)	(١)
٨٧	٧٤	٢٢
× ٦٨	× ٤١	× ٢٤
□□٦	٧٤	□□
□□٢٠	□□□□	٤٤٠
□□□□	□□□□	□□□

(٦)	(٥)	(٤)
٨٦٥	٧٤٣	٢٦٥
× ٩٧	× ٥٩	× ٣٧
□□□□	□□٨٧	□□٥٥
□□□□□	□□١٥٠	□□٥٠
□□□□□	□□□□□	□□□□

(٩)	(٨)	(٧)
٣٨□	٧٤	٥□
× □١	× □٦	× ٣٢
□□٧	٤٤٤	١٠□
□□٤٨٠	٣□□٠	١٦٢٠
□٥□□٧	٤□٤٤	١٧٢□

ܗܫܐ ، ܟܬܘܒ ܠܚܘܫܒܢܐ ܗܕܝܢܐ ܕܠܐ ܡܢܝܢܐ ܕܚܘܫܒܢܐ ܕܣܘܟܡܐ (ܐܝܟ ܠܐ ܡܫܘܚܬܐ) . ܘܒ
ܟܬܘܒ ܡܢ ܗܕܝܢܐ ܕܐܬܝܗܒ ܒܡܢܝܢܐ ܕܚܘܫܒܢܐ ܕܣܘܟܡܐ :

(١) ٤٧ × ٢٣ =

(ܐ) ٨٠٠١ (ܒ) ١٠٨١ (ܓ) ١٤٠٠

ܡܬܠ̈ܐ :

ܟܕ ٧ × ٣ = ٢١ ܚܘܫܒܬܐ ܕܡܘܣܦܐ ܗܘܝܐ (١)

ܐܝܟ ܗܕܐ ܡܩܪܒܝܢ ܦܘܬ̈ܐ (ܓ)

ܟܕ ٤٧ = ٥٠ ܠܡܘܩܪ̈ܒܝܐ ܝܬܝܪ̈ܐ

، ٢٣ = ٢٠ ܠܡܘܩܪ̈ܒܝܐ ܝܬܝܪ̈ܐ

ܒܡܩܡܐ ܡܘܩܪ̈ܒܐ ܠܡܘܣܦܐ ܒܝܢܘ ٢٠ × ٥٠ = ١ ٠٠٠

ܘܗܕܐ ܩܪܝܒ ܠܗ ܕܡܩܪܒܝܢ ܦܘܬ̈ܐ (ܐ)

ܦܘܬ̈ܐ ܡܫܝܐ ܚܘܝܐ ١٠٨١ ܐܝܟ ܕܐܡܪܢܘ ܠܗ (ܒ)

(٢) ١٧٩ × ٤ =

(ܐ) ٨٠٤ (ܒ) ٧١٦ (ܓ) ٩١٦

(٣) ٣٤ × ٤٩ =

(ܐ) ١٢ ٩٠٦ (ܒ) ١ ٥٠٠ (ܓ) ١ ٦٦٦

(٤) ٥٣ × ٢١ =

(ܐ) ١ ١١٣ (ܒ) ٩٨٣ (ܓ) ١ ٢١٥

(٥) ٤٩ × ٦٥ =

(ܐ) ٦ ٠٨٥ (ܒ) ٣ ١٨٥ (ܓ) ٣ ٢٠٩

(٦) ١٣٥ × ٤٧ =

(ܐ) ٥ ٠٠٠ (ܒ) ٦ ٣٤٥ (ܓ) ٢ ٣٣٥

(٧) ٥٧ × ٧٦ =

(ܐ) ٥ ٠٣٧ (ܒ) ٢ ٥٣٢ (ܓ) ٤ ٣٣٢

(٨) ٩٠ × ٢٧ =

(ܐ) ٢ ٤٣٠ (ܒ) ٢ ٧٦٣ (ܓ) ٤ ٢٣٠

(٩) ٢٥ × ٥٦ =

(ܐ) ١ ٠٠٠ (ܒ) ١ ٢١٧ (ܓ) ١ ٤٠٠

ܡܬ̈ܠܐ : ܥܒܕ ܠܡܘܪ̈ܟܒܐ ܕܐܬܝ :

١ - ܐܢ ܟܪܝܗܐ ܐܝܬܠܗ ܡܘܕܥܬܐ ܕܟܠܝܬܐ ܡܥܒܕܐ ١٦٢٨ ܟܠܝܬܐ. ܒܚܕ ܝܠܗ ܐܘܪܚܐ ܚܕܐ ܐܢ ܡܛܐ ܠܘܚܡܐ ܕܡܥܒܕܢܘܬܐ ܘܗܕܟܠܗ ܗܘ ܟܪܝܗܐ ܕܡܛܐ ܝܢ ܟܠ ܝܘܡܐ ܡܥܒܕܢܘܬܐ ٨٠٠٠٠٠ ܕܝܢܪܐ ܥܪܒܝܐ. ܝܢ ܡܛܐ ܠܗ ܡܢ ܟܢܘܫܬܐ ܕܡܥܒܕܢܘܬܐ ܕܐܢ ܕܡܟܐ ٥٤٠ ܕܝܢܪܐ ܥܪܒܝܐ ܐܝܟܐ ܡܢ ܐܘܪܚܐ ܡܛܐ ܠܘܚܡܐ ܟܠܗ ܡܥܒܕܢܘܬܐ؟ ܡܠܝܐ؟

٢ - ܝܢ ܡܛܐ ܕܡܪܐ ܕܟܢܘܫܬܐ ܐܝܬܠܗ ٦٤٧ ܕܝܢܪܐ، ܟܡܐ ܐܝܬܠܗ ܡܛܐ ٦٤ ܝܘܡܢ؟

٣ - ܘܝܢ ܠܗ ܡܛܐ ٩٨ ܡܫܬܥܠܢܘܬܐ ܟܫܘܩܬܐ ١٥٠٠٠ ܕܝܢܪܐ، ܝܢ ܘܐܟܒ ܠܗ ܘܡܛܐ ܕܟܢܐ ١٨٠ ܕܝܢܪܐ ܟܡܐ ܐܝܬܠܗ ܡܢܝܢܗ ؟

٤ - ܐܘܪܚ ܦܠܚܐ ܟܫܒܘܥܐ ١٥ ܕܝܢܪܐ ܥܪܒܝܐ، ܟܡܐ ܟܫܒܘܥ ܒܝܬܐ ܠܡܦܠܚܐ ܝܢ ܡܥܠܝܢ ܕܝܬܝܐ ܐܝܬܠܗ ٥٢ ܥܪܒܝܐ؟

٤ - ٤ ܟܘܦܠܐ ܟܡܢܝܢܐ ܡܚܒܪܐ ܕܐܘܒܗ ܡܢ ܡܠܬܐ ܕܐܢܝܐ :

ܠܡܥܒܕܢܘܬܐ ܕܚܘܫܒܐ ٣٢٤ × ٢٦١ ܗܘ ܦܘܫܩܐ:

٢٦١	٢٦١	٢٦١
٣٢٤ ×	٣٢٤ ×	٣٢٤ ×
١٠٤٤	١٠٤٤	١٠٤٤
٥٢٢٠	٥٢٢٠	
٧٨٣٠٠		
٨٤٥٦٤		

ܘܩܪܝܒ ܐܝܬܠܗ ܚܘܫܒܐ ٣٢٤ = ٣٠٠ ܠܡܘܪܟܒܐ ܡܐܐ

٢٦١ ، = ٣٠٠ ܠܡܘܪܟܒܐ ܡܐܐ

٣٠٠ × ٣٠٠ = ٩٠٠٠٠ ܟܡܝܢܐ ܡܘܪܟܒܐ ܠܚܘܫܒܐ،

ܘܗܘ ܕܡܝܘ ܠܡܫܡܠܝܘܬܐ ܕܡܢ̈ܝܢܐ.

ܡܚܘܝܢܘܬܐ : ܡܫܘܚܬܐ ܐܝܟܘ ܕܡܫܚܬܐ ܠܣܘܩܐ ܡܘܪ̈ܒܝܬܐ ܝܬܝܪ ܡܢ ܠܡܘܢܝܐ ܕܡܫܡܠܝܬܐ
ܠܡܘܪ̈ܒܝܬܐ ١٠ ܐܝܟ ܕܡܫܡܠܝܬܐ ܠܡܘܪ̈ܒܝܬܐ ١٠٠ ܚܕܝܐ ܠܗ :

٨٣ ٢٠٠ = ٢٦٠ × ٣٢٠

ܡܬܠ : ܦܬܝܪܐ   ܕܘܪܫܐ (٤ - ٤)

(١)

٨ ٨ ١
× ٢ ١ ٧
□□٦ ٧
□٨ ١ ٠
□□٦ ٢□□
□□□□□□

(٢)

٦ ٥ ١ ٨
× ٩ ٤ ٦
□□١ ٠ ٨
□□□٧ ٢□
□□□٦ ٢ ٠□
□□□□□□□

ܦܘܫ : ܐܫܠܡ ܠܡܘܢܝܐ ܘܦܫܘܩ ܠܗ ܒܡܣܘܩܐ ܡܘܪ̈ܒܝܬܐ:

(١) ٨١١ × ١٣٢

(٢) ٩٠٥ × ٤٧٥

(٣) ٧٧٧ × ٨١٩

(٤) ٩٥١ × ٢٦٤

(٥) ٣٦٥ × ٧٨١

(٦) ٧٠٦ × ٣٦٨

(٧) ٦٣٨ × ٢ ٤٢٩

(٨) ٦ ٩٠٢ × ٨٤٣

(٩) ٢٥٨ × ٦ ٠٥٨

(١٠) ٨ ٠٠٩ × ٧٦٦

(١١) ٩٠٩ × ١ ٠٩٢

(١٢) ٩ ٥٠٤ × ٨ ٢٤٠

ܗܠܟܐ : ܦܫܘܛ

(١) ٩□ × ٨ = ٧٢٨

(٢) □٥ × ٣ = ١٣□

(٣) ٧ × ٤□ = □□٥

(٤) ٥٦ × □ = □٠٤

(٥)
```
  □٦
× ٧□
-----
 ٢٨٠
٣□٢□
-----
٤□٠٠
```

(٦)
```
  ٥٩
× □□
-----
  ٥□
 □□□
-----
 ٦٤٩
```

(٧)
```
     ٣١٢٩
  × ٣□٨
---------
   □□□□□
  □□□٩٠
 ٩٣٨٧□□
---------
 □□□□٢٢
```

ܬܪܥܝܬܐ : ܦܫܘܛ ܠܡܘܬܒܐ ܡܢ ܐܠܝܢ ܚܘܫ̈ܒܐ ܢܗܘܐ ܩܪܝܒܐ (ܚܙܝ ܐܟܘ ܡܬܚܫܒܢܐ)

(١) ٣٢ × ٤٥٧ ⟵ ܚܘܫܒܢܐ ܡܘܩܪܒܐ

(ܐ) ٨ ٦٢٤ (ܒ) ١٤ ٦٢٤ (ܓ) ٣٤٦٢٤

ܦܘܪܫܢܐ

ܚܘܫܒܢܐ ܡܘܩܪ̈ܒܐ ܠܡܘܬܒܐ = ٣٠ × ٥٠٠ = ١٥ ٠٠٠

ܗܟܝܠ ܦܘܢܝܐ ܗܘ (ܒ) ܕܗܘ ܢܗܘܐ ܩܪܝܒܐ.

(٢) ٦ × ٥٧ ⟵

(ܐ) ٣٤٢ (ܒ) ٨٤٢ (ܓ) ٦٢٠

(٣) ٩ × ٢٧٣ ⟵

(ܐ) ١ ٤٥٧ (ܒ) ٠١ ٨٤٧ (ܓ) ٢ ٤٥٧

(٤) ٣٢ × ٨٦ ⟵

(ܐ) ١ ٥٧٢ (ܒ) ٢ ٧٥٢ (ܓ) ٤ ٧٥٢

(٥) ١٧٥ × ٤٣ ⟵

(ܐ) ٢ ٥٧٥ (ܒ) ٧ ٥٢٥ (ܓ) ١٠ ٥٧٥

(٦) ٧٨٢ × ٢٢٩ ⟵

(ܐ) ١٧٩ ٠٧٨ (ܒ) ٢٩٧ ٠٧٨ (ܓ) ٤٠٧ ٠٧٨

ܬܘܼܪܓܵܡܵܐ : ܫܪܝ ܠܡܘܼܫܟܵܠܹ̈ܐ ܕܐܵܬܝ :

١ ـ ܢܲܦܩܬܵܐ ܕܒܲܝܬܘܼܬܵܐ ܕܚܲܕ ܡܫܲܦܚܬܵܐ ܝܠܵܗ̇ ٣٧٥ ܕܝܼܢܵܪ̈ܐ، ܟܡܵܐ ܝܠܵܗ̇ ܢܲܦܩܬܵܐ ܕܒܲܝܬܘܼܬܵܐ ܕ٧ ٦٣٥ ܡܫܲܦܚܵܬܹ̈ܐ؟

٢ ـ ܐܸܢ ܡܙܲܒܢܲܚ ܟܬܵܒܵܐ ܕܡܲܕܪܲܫܬܵܐ ܒܛܝܼܡܵܐ ١١٧ ܕܝܼܢܵܪ̈ܐ. ܟܡܵܐ ܟܸܣܦܵܐ ܒܸܥܝܵܐ ܠܙܒܵܢܵܐ ܕ٤٥١ ܟܬܵܒ̈ܐ؟ ܝܲܬܝܼܪ ܠܡܸܢܝܵܢܹܗ ܝܘܿܢ . ܘܐܸܢ ܗ̇ܘ ܡܙܲܒܢܵܐ ܒܛܝܼܡܵܐ ١٥٢ ܕܝܼܢܵܪ̈ܐ ܠܟܠ ܟܬܵܒܵܐ.

٣ ـ ܡܲܕܢܵܐ ܡܫܘܼܚܬܵܐ ٧٥٣٦ ܡܲܬܪ̈ܘܿܬܵܐ ܡܢ ܐܲܪܥܵܐ ܙܲܪܝܼܥܬܵܐ. ܐܲܝܟܵܐ ܡܫܘܼܚܬܵܐ ܕܡܲܕܢܵܐ ܕܡܫܘܼܚܬܵܐ ܡܢ ܐܲܪܥܵܐ ܐܝܬ ܒܗ̇ ܕܡܹܐ، ܐܲܪܒܥܵܐ ܡܢ ܟܠ ܫܢܵܐ.

٤ ـ ܟܡܵܐ ܡܦܵܠܬܵܐ ܕܒܲܥܘܼܬܵܐ ܠ ٢٧ ܦܵܬܘܼܪ̈ܐ ܡܢ ܟܠ ܚܲܕ ܠܗ ܦܵܬܘܿܪܵܐ، ܟܡܵܐ ܦܵܬܘܼܪ̈ܐ ܐܝܬ ܡܦܵܠܬܵܐ ܠܦܵܬܘܿܪܵܐ ... ٢٧٥ ܡܦܵܠܬܵܐ ܡܢ ܟܘܼܠܗܘܿܢ ܡܢ ܒܲܥܘܼܬܵܐ ܕܗܵܕܵܐ ؟

٥ ـ ܐܸܢ ܠܗ ܚܲܕܟܡܵܐ ١٠٠٠ ܕܝܼܢܵܪ̈ܐ ܡܢ ܐܲܫܘܵܝܬܵܐ ܕܡܸܢܝܵܢܵܐ ٧٥ ١٨ ܕܝܼܢܵܪ̈ܐ، ܘܡܲܦܪܸܫܠܗ ܠܟܠ ܚܲܕ ܡܸܢܝܵܢܵܐ ١٠٠٠ ܕܝܼܢܵܪ̈ܐ، ܟܡܵܐ ܦܝܫܠܗ ܠܹܗ ܘܐܸܢ ܠܗ ܠܡܸܢܝܵܢܵܐ ܕܡܲܒܥܵܐ ٢٥ ܕܝܼܢܵܪ̈ܐ ܠܟܠ ܚܲܕ ܫܲܢ̈ܬܵܐ.

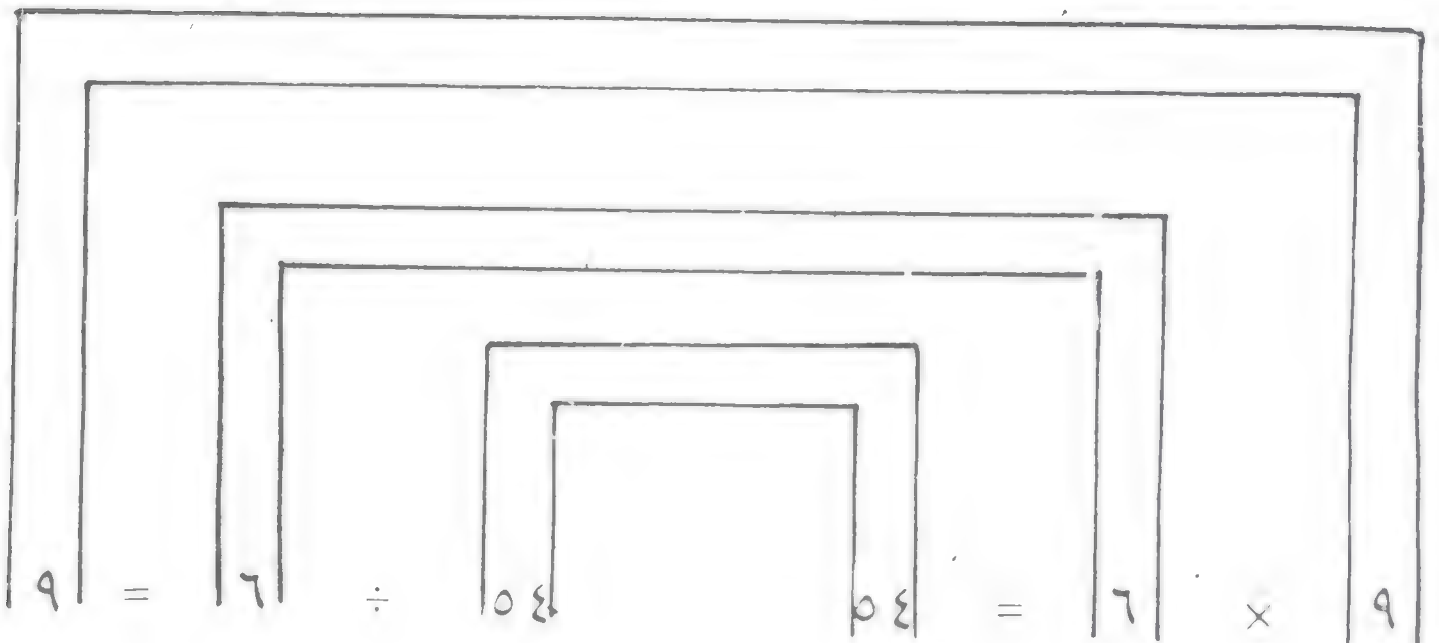


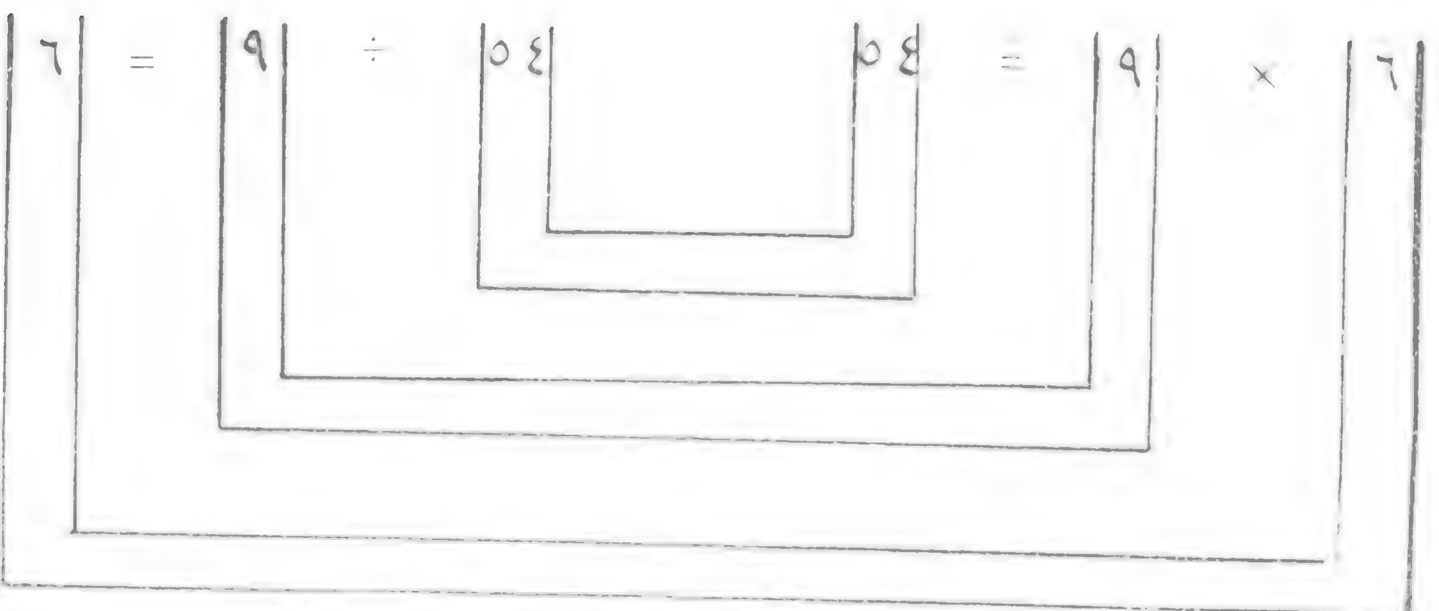
ܓܘ ܚܕܐ ܡܫܬܠܐ ܕܘܪ̈ܕܐ ܕܢܥܡܬܐ ܕܗܘܠܢܕ ܐܝܬ ١٧٦ ܓܘܢ̈ܝܬܐ ܦܠܝܓ̰ܐ ܒܡܫܘܚܬܐ ܠ ٨ ܕܪ̈ܝܐ. ܟܡܐ ܓܘܢ̈ܝܬܐ ܐܝܬ ܓܘ ܟܠ ܕܪܐ؟

ܦܠܵܓ݂ܘܼܬ݂ܵܐ

ܦܠܵܓ݂ܘܼܬ݂ܵܐ ܥܲܠ ܡܸܢܝܵܢܹܐ ܡܲܦܠܓ݂ܵܢܹܐ ܕܗܵܘܹܐ ܡܼܢ ܚܲܕ ܪܸܫܡܵܐ

ܝܼܕܥܠܘܼܟ݂ ܠܐܲܚܢܘܼܬ݂ܵܐ ܒܹܝܢ ܦܠܵܓ݂ܘܼܬ݂ܵܐ ܘܟ݂ܘܼܦܵܠܵܐ، ܒܲܝܬ݂ ܕܟ݂ܘܼܦܵܠܵܐ
ܐ ܦܪܝܫܬܵܐ ܡܼܢܹܗ ܗܼܝ ܒܲܝܬ݂ ܕܦܠܵܓ݂ܘܼܬ݂ܵܐ ، ܗܵܐ ܚܘܼܙܵܐ ،





ܘܕ ܗܵܕܐ، ܠܐ ܚܫܒܬܵܐ ٧٢ ÷ ٨ . ܗܵܐ ܚܘܼܙܵܐ، ܒܐܚܝܢܝܢ ܒܚܕ ܥܕܢܐ :

٨ × ☐ = ٧٢

ܡܼܢ ܡܲܠܦܵܢܘܼܬ݂ ܥܕܢܐ ܝܕܥܝܢ ܕܟ݂ܘܼܦܵܠܵܐ ܠܡܕܥܐ ܕܗܵܕܐ ܡܸܢܝܵܢܵܐ ܝܠܗ ٩ ،

ܒܗܵܕܐ : ٧٢ ÷ ٨ = ٩

ܚܘܫܒܐ ܡܠܠܝܐ

١) ܟܡܐ ܫܒܘܥܐ ܐܝܬ ܒ ٣٥ ܝܘܡܐ؟

ܡܢܝܢܐ ܕܫܒܘܥܐ = ٣٥ ÷ ٧ = ٥ ܡܛܠ ٥ × ٧ = ٣٥

٢) ܟܡܐ ܫܒܘܥܐ ܐܝܬ ܒ ٤٥ ܝܘܡܐ؟

٤٥ ÷ ٧ = ٦ ܘܦܪܝܫܐ ٣ ܡܛܠ ٦ × ٧ = ٤٢

ܝܢ ܚܘܝ ٤٥ = ٦ × ٧ + ٣

٣) ܟܡܐ ܫܒܘܥܐ ܐܝܬ ܒ ٦٧ ܝܘܡܐ؟

٦٧ ÷ ٧ = ٩ ܘܦܪܝܫܐ ٤

ܚܘܝ ٦٧ = ٩ × ٧ + ٤

ܘܟܘܠܝܗ ، | ܦܠܓܐ = ܡܘܬܒܐ ܕܦܠܓܘܬܐ × ܦܠܓܐ ܝܬܝܪܐ + ܦܪܝܫܐ |

٤) ܟܡܐ ܫܒܘܥܐ ܐܝܬ ܒ ٧٩١ ܝܘܡܐ؟

| ٧ ܡܐܘܬܐ ÷ ٧ = ܡܐܐ ܘܦܪܝܫܐ ܣܦܝܩܐ |

| ٩ ܥܣܪܝܬܐ ÷ ٧ = ܥܣܪܝܬܐ ܘܦܪܝܫܐ ܬܪܝܢ ܥܣܪܝܬܐ |

| ܬܪܝܢ ܥܣܪܝܬܐ + ١ = ٢١ ، ٢١ ÷ ٧ = ٣ |

١ ١ ٣

٧ | ٧ ٩ ١

٧

٩

٧

٢ ١

٢ ١

٠

| ١ ܡܐܐ × ٧ = ٧ ܡܐܘܬܐ |

| ١ ܥܣܪܝܬܐ × ٧ = ٧ ܥܣܪܝܬܐ |

| ٣ ܚܕܝܘܬܐ × ٧ = ٢١ |

٠ ⟵ ܦܪܝܫܐ

ܦܠܓܐ ܡܘܬܒܐ ١١٣ ܫܒܘܥܐ

ܘܫܪܪܬܐ ܡܢ ܡܦܠܓܘܬܐ ܕܡܢܝܢܐ :

ܡܢܝܢܐ ܕܡܦܠܓܘܬܐ ܘܦܠܓܐ ٧٩١ = ٧ × ١١٣ ܡܦܠܓܐ

ܡܢܝܢܐ : ܡܦܠܓܐ = ܡܢܝܢܐ ܕܡܦܠܓܘܬܐ X ܦܠܓܐ ܐܢܘ

ܡܚܘܐ ܐܢܬܘܢ ܦܠܓܘܬܐ ܕܡܢܝܢܐ ܥܠ ܡܦܠܓܘܬܐ ܐܢ ܦܠܓܐ ܐܢܘ.

ܦܠܘܓ ܡܢܝܢܐ ٨٢٤ ٩ ÷ ٦ ܘܫܪܪ ܡܢ ܡܦܠܓܘܬܐ ܕܡܢܝܢܐ

ܦܘܫܩܐ

٩ ܐܠܦܐ ÷ ٦ = ١ ܐܠܦܐ ܘܦܪܝܫܐ ٣ ܐܠܦܐ

٣ ܐܠܦܐ ٢ ܡܐܐ ÷ ٦ = ٥ ܡܐܘܬܐ ܘܦܪܝܫܐ ٢ ܡܐܘܬܐ

٢ ܡܐܘܬܐ ٤ ÷ ٦ = ٧ ܥܣܪܝܢ

	٧		٥		١	
	٢		٤		٩	

١ ܐܠܦܐ × ٦ = ٦ ܐܠܦܐ

٥ ܡܐܘܬܐ × ٦ = ٣٠ ܡܐܐ

٧ ܥܣܪܝܢ × ٦ = ٤٢

ܕܘܪ̈ܫܐ (٥ - ١)

ܚܕ : ܡܠܝ

(١)

□□□
٧ | ٧ ٤ ٩
٧
———
٠ ٤
٠
———
٤ ٩
٤ ٩
———
٠

(٢)

□ ٤ □
٤ | ٩ ٦ ٠
٨
———
□□
١ ٦
———
□□□
□
———
□

(٣)

□□□
٩ | ٨ ٣ ٧
□□
———
□٢
□□
———
□

ܬܪܝܢ : ܦܠܘܓ ܠܦܘܠܓܐ ܘܒܨܪ ܡܢ ܒܚܝܪܘܬܗ :

(١) ٦٤٠ ÷ ٥   (٢) ٤٩٦ ÷ ٨   (٣) ٢٢٢ ÷ ٦

(٤) ٣ ٥٢١ ÷ ٧   (٥) ٧ ٦٣٢ ÷ ٣   (٦) ٩ ٤٠٠ ÷ ٨

(٧) ٧٢ ٩٦٥ ÷ ٥   (٨) ٧٢ ٠٤٨ ÷ ٤   (٩) ٥٠ ٢٣٢ ÷ ٦

(١٠) ٤٥٢ ÷ ٨   (١١) ٦٣٧ ÷ ٥   (١٢) ٢ ٩٠١ ÷ ٣

(١٣) ٣ ٠٢٨ ÷ ٦   (١٤) ٤ ٨٧٤ ÷ ٩   (١٥) ١٥ ٠٣٧ ÷ ٦

. ܬܡܪܝܢܐ : ܥܒܕ ܠܦܘܫܟܐ ܕܠܬܚܬ :

١ - ܦܬܟܠܗܘܢ ܦܠܚܝܐ ٢١١٨ ܥܡܝܐ ܒܟܠ ٦ ܝܘܡܐ ܒܬܫܘܥܬܐ. ܟܡܐ ܥܡܝܐ ܦܬܟܠܗܘܢ ܚܘܬܐ ܒܟܠ ܝܘܡܐ؟

٢ - ܡܠܐܠܗܘܢ ܡܢܛܪܢܐ ܕܢܛܘܪܐ ܟܠ ٩ ܡܝܐ ܒܝܘܡ ܡܝܢܐ. ܐܝܟܢ ܡܝܢܐ ܕܡܢܛܪܢܐ ܒܟܠ ܝܘܡܐ ܐܝܢ ܡܝܢܐ ܕܟܠܗ ܗܘܐ ٤٨٦ ܠܝܛܪܐ.

- ܡܫܬܠܡܐ ܗܘܐ ܫܘܩܠܗ ܒܦܘܪܣܐ ܒܘܒܐ ܕ ٧ ܝܘܡܐ. ܐܢ ܡܫܬܠܡܐ ܚܘܫܒܐ ܕܫܘܩܠܐ ܗܘܐ ٣٦٤ ܕܝܢܪܐ. ܟܡܐ ܕܝܢܪܐ ܒܝܘܡܐ ܡܫܬܠܡ ܠܗ ܒܟܪܝܘܬܐ؟

- ܚܕ ܩܛܝܢ ܡܢܓܪܐ ܠܘܚܐ ܕܟܬܒ ܐܝܟ ٨ ܠܘܚܐ ܒܟܠ ܫܥܬܐ. ܟܡܐ ܫܥܬܐ ܒܥܐ ܠܡܓܪܐ ٦٤٨ ܠܘܚܐ ܡܢ ܦܠܓܐ ܕܗܘ؟

- ܡܟܬܒܐ ܡܙܒܢ ܦܘܪܣܢܐ ܒܡܝܬܐ ܕ ٢٥٠ ܕܝܢܪܐ ܠܟܠ ٦ ܦܘܪܣܢܐ. ܟܡܐ ܡܙܒܢ ܗܘ ܡܟܬܒܐ ٩٥٤ ܦܘܪܣܢܐ؟

- ܙܒܢ ܠܗ ܡܟܬܒܐ ٣٠٠ ܟܘܠܝܐ ܕܟܬܒܐ ܒܡܝܬܐ ܕ ٦٠٠ ܕܝܢܪܐ. ܐܝܟܢ ܠܡܙܒܢܗ ܐܢ ܒܝܬܐ ܠܗܘ ܒܡܝܬܐ ܕ ١٨ ܕܝܢܪܐ ܠܟܠ ٦ ܟܘܠܝܐ.

٥ - ٣ ܡܘܣܟܐ ܡܩܪܒܢܝܐ ܠܡܦܩܬܐ ܕܦܠܓܘܬܐ

$$٤٨ = ٦ \times ٨$$ ܡܬܦܠܓ ܦܠܓܘܬܐ ܒܟܠ ٦ ܡܢ ٤٨

ܐܢܐ ٤٥ ܠܐ ܡܬܦܠܓ ܦܠܓܘܬܐ ٦ ܡܢ

$$٤٥ \div ٦ = ٧$$ ܘܫܪܟܐ ٣

$$٤٥ = ٧ \times ٦ + ٣.$$

ܡܦܩܬܐ ܕܦܠܓܘܬܐ ܡܘܣܟܐ ܡܩܪܒܢܝܐ ܠܡܦܩܬܐ $٤٥ \div ٦$ ܐܝܟ ܕܠܬܚܬ

٤٢ ܡܬܦܠܓ ܡܢ ܦܠܓܘܬܐ ܕܩܪܝܒܐ ٦ ، ܡܬܦܠܓ ܦܠܓܘܬܐ ܐܝܟܢ ܡܩܪܒܢܐ ܠܡܦܩܬܐ ٤٥

ܗܘܐ $٤٥ \div ٦ \longrightarrow$ (ܗܘܐ ܡܩܪܒܢܝܐ) $٤٢ \div ٦ =$ **٧**

ܐܝܟ ܗܕܐ ܡܦܩܬܐ ܕܦܠܓܘܬܐ ܡܘܣܟܐ ܡܩܪܒܢܝܐ ܠܡܦܩܬܐ $٤٧٨ \div ٩$ ܐܝܟ ܕܠܬܚܬ

$$٤٧٨ \div ٩ \longrightarrow ٤٥٠ \div ٩ = \boxed{٥٠}$$

ܗܕܐ ܡܬܚܙܝܐ ܡܘܣܟܐ ܡܩܪܒܢܝܐ ܠܡܦܩܬܐ $٢٥٣٤ \div ٧$ ، ܗܘܐ :

$$٢٥٣٤ \div ٧ \longrightarrow ٢٨٠٠ \div ٧ = ٤٠٠$$

ܬܘܪܓܡܐ (٥ - ٢)

ܐ : [illegible]

□□□

(١) ٣٥٤ ⟌ ٦ ⟵ ٣٦٠ ⟌ ٦

□□□

(٢) ٥١٢ ⟌ ٧ ⟵ ٤٩٠ ⟌ ٧

□□□□

(٣) ١ ٩١٥ ⟌ ٤ ⟵ □□□□ ⟌ ٤

ܒ : [illegible]

(١) ١ ٨٩٩ ⟌ ٤ ⟵ (ܐ) ٢ ٠٠٠ ⟌ ٤ ܐܘ (ܒ) ١ ٦٠٠ ⟌ ٤

(٢) ٥ ٩٩٧ ⟌ ٩ ⟵ (ܐ) ٦ ٣٠٠ ⟌ ٩ ܐܘ (ܒ) ٥ ٤٠٠ ⟌ ٩

(٣) ٤ ٣٧٩ ⟌ ٥ ⟵ (ܐ) ٤ ٠٠٠ ⟌ ٥ ܐܘ (ܒ) ٤ ٥٠٠ ⟌ ٩

ܓ : [illegible]

(١) ٣٤٢ ÷ ٨　　(٢) ٢٩٧ ÷ ٤

(٣) ١ ٧٣٧ ÷ ٥　　(٤) ٤ ٠٨٣ ÷ ٦

(٥) ٢ ٩٥٠ ÷ ٩　　(٦) ٢ ٩٣٤ ÷ ٨

ܕ : [illegible]

١ - [illegible] ٣٦٥ [illegible] ٦ [illegible]

٢ - [illegible] ٢٦٩٠ [illegible] ؟

٣ - [illegible] ٦ [illegible] ٥٧٩٠ [illegible] ؟

ܗ – ٣ ܦܠܝܓܘܬܐ ܥܠ ١٠ ، ١٠٠ ، ١٠٠٠

...ܬܐ ܥܠ ܠܦܠܓܘܬܐ ܕܢܡܘܬܐ ܡܢ ܚܘܫܒܐ ܘܦܠܝܓܘܬܐ ܠܡܢܝܢܐ ܕܗܘܝܐ
...ܝܓܘܬܐ ܥܠ ܟܠ ܚܕ ܡܢ ١٠ ، ١٠٠ ، ١٠٠٠ ܐܝܟ ܕܡܚܘܝܢ ܗܠܝܢ ܡܢ ܕܠܬܚܬ :

٤ × ١٠ = ٤٠ ، ٤٠ ÷ ١٠ = ٤

٧ × ١٠ = ٧٠ ، ٧٠ ÷ ١٠ = ٧

٩ × ١٠ = ٩٠ ، ٩٠ ÷ ١٠ = ☐

١٥ × ١٠ = ١٥٠ ، ١٥٠ ÷ ١٠ = ☐

٢٣٨ × ١٠ = ٢ ٣٨٠ ، ٢ ٣٨٠ ÷ ١٠ = ☐

ܐܡܪܐ ......

٣ × ١٠٠ = ٣٠٠ ، ٣٠٠ ÷ ١٠٠ = ٣

٥ × ١٠٠ = ٥٠٠ ، ٥٠٠ ÷ ١٠٠ = ٥

٨ × ١٠٠ = ٨٠٠ ، ٨٠٠ ÷ ١٠٠ = ☐

١٠ × ١٠٠ = ١ ٠٠٠ ، ١ ٠٠٠ ÷ ١٠٠ = ☐

٢٩ × ١٠٠ = ٢ ٩٠٠ ، ٢ ٩٠٠ ÷ ١٠٠ = ☐

٣٢٥ × ١٠٠ = ٣٢ ٥٠٠ ، ٣٢ ٥٠٠ ÷ ١٠٠ = ☐

٧٥٠ × ١٠٠ = ٧٥ ٠٠٠ ، ٧٥ ٠٠٠ ÷ ١٠٠ = ☐

ܐܡܪܐ ......

٢ × ١ ٠٠٠ = ٢ ٠٠٠ ، ٢ ٠٠٠ ÷ ١ ٠٠٠ = ٢

٦ × ١ ٠٠٠ = ٦ ٠٠٠ ، ٦ ٠٠٠ ÷ ١ ٠٠٠ = ☐

١٧ × ١ ٠٠٠ = ١٧ ٠٠٠ ، ١٧ ٠٠٠ ÷ ١ ٠٠٠ = ☐

٢٠٩ × ١ ٠٠٠ = ٢٠٩ ٠٠٠ ، ٢٠٩ ٠٠٠ ÷ ١ ٠٠٠ = ☐

ܐܡܪܐ ......

ܕܘܪ̈ܫܐ (٥ ـ ٣)

ܚܕ : ܦܠܘܓ ܠܥܣܪ̈ܐ

(١) ٣٥٠ ÷ ١٠   (٢) ٧٥٠ ÷ ١٠   (٣) ٥٠٠ ÷ ١٠

(٤) ٢ ٠٠٠ ÷ ١٠   (٥) ٢ ٣٤٠ ÷ ١٠   (٦) ٥٧ ٠٠٠ ÷ ١٠

ܬܪܝܢ : ܡܠܝ

(١) ٦ ٥٠٠ ÷ ____ = ٦٥   (٢) ____ ÷ ١٠ = ١٩

(٣) ____ ÷ ١٠٠ = ٥٠   (٤) ٣٠٠ ٠٠٠ ÷ ____ = ٣٠٠

(٥) ١٠ ٥٠٠ ÷ ____ = ١ ٠٥٠   (٦) ____ ÷ ١ ٠٠٠ = ١٧

(٧) ٩٠ ٠٠٠ ÷ ____ = ٩٠٠   (٨) ____ ÷ ١٠٠ = ٥١٠

ܬܠܬܐ : ܫܪܝ ܠܡܘܬ̈ܠܐ ܕܐܬܝ :

١ ـ ܟܡܐ ܟܝܠܘܡܝܬܪ̈ܐ ܐܝܬ

(ܐ) ٢٠ ٠٠٠ ܡܝܬܪ̈ܐ   (ܒ) ١٥ ٠٠٠ ܡܝܬܪ̈ܐ   (ܓ) ١ ٧٥٠ ٠٠٠ ܡܝܬܪ̈ܐ

٢ ـ ܟܡܐ ܟܝܠܘܓܪ̈ܡܐ ܐܝܬ

(ܐ) ٢ ٠٠٠ ܓܪ̈ܡܐ   (ܒ) ٧٥ ٠٠٠ ܓܪ̈ܡܐ   (ܓ) ٢ ٠٣٠ ٠٠٠ ܓܪ̈ܡܐ

٣ ـ ܐܘܪܚܐ ܡܨܝܥܝܬܐ ܕܡܕܝܢܬܐ ܣܘܪܓܗ ٦ ܡܝܬܪ̈ܐ ܘܦܬܝܘܬܗ ٥ ܡܝܬܪ̈ܐ ܦܠܘܓ ܠܫܘܪܓܗ ܒܡܢܝܢܐ ܕܣܢܬܝܡܝܬܪ̈ܐ.

٤ ـ ܐܝܬ ܠܗ ܡܠܟܐ ٤٠ ٠٠٠ ܕܝܢܪ̈ܐ ܕܗܒ̈ܐ. ܟܕ ܕܦܠܓܠܗ ܠܗ ܠܥܒܕ̈ܘܗܝ ܕܝܗܒ ܠܟܠ ܚܕ ١٠ ܕܝܢܪ̈ܐ. ܟܡܐ ܥܒܕ̈ܘܗܝ ܐܝܬ ܠܗ؟

… ٤ : ܦܠܓܘܬܐ ܥܠ ܡܢܝ̈ܢܐ ܕ ١٠ ، ١٠٠ ، ١٠٠٠

…ܡ ܐܝܟ ܗ̇ܘ ܚܘܫܒܐ ܩܕܡܝܐ :

… × ٢٠ = ٦٠ ، ٦٠ ÷ ٢٠ = ٦ ÷ ٢ = ٣

٤… × ٧ = ٢٨٠ ، ٢٨٠ ÷ ٤٠ = ٢٨ ÷ ٤ = ☐

٥… × ٤٠ = ٢ ٠٠٠ ، ٢ ٠٠٠ ÷ ٥٠ = ٢٠٠ ÷ ٥ = ☐

١٢… × ٨٠ = ١٠ ٠٠٠ ، ١٠ ٠٠٠ ÷ ٨٠ = ١ ٠٠٠ ÷ ٨ = ☐

… × ٨٠٠ = ٤ ٨٠٠ ، ٤ ٨٠٠ ÷ ٨٠٠ = ٤٨ ÷ ٨ = ٦

… × ٥٠٠ = ٤ ٥٠٠ ، ٤ ٥٠٠ ÷ ٥٠٠ = ٤٥ ÷ ٥ = ☐

٣… × ٤٠٠ = ١٢ ٠٠٠ ، ١٢ ٠٠٠ ÷ ٤٠٠ = ١٢٠ ÷ ٤ = ☐

٣… × ٢٠٠ = ٧ ٤٠٠ ، ٧ ٤٠٠ ÷ ٢٠٠ = ٧٤ ÷ ٢ = ☐

… × ٣ ٠٠٠ = ١٥ ٠٠٠ ، ١٥ ٠٠٠ ÷ ٣ ٠٠٠ = ١٥ ÷ ٣ = ٥

… × ٤ ٠٠٠ = ٢٨ ٠٠٠ ، ٢٨ ٠٠٠ ÷ ٤ ٠٠٠ = ٢٨ ÷ ٤ = ☐

٣… × ٥ ٠٠٠ = ١٧٥ ٠٠٠ ، ١٧٥ ٠٠٠ ÷ ٥ ٠٠٠ = ١٧٥ ÷ ٥ = ☐

٨٠٠… × ٤٠٠ = ٣ ٢٠٠ ٠٠٠ ، ٣ ٢٠٠ ٠٠٠ ÷ ٨ ٠٠٠ = ٣ ٢٠٠ ÷ ٨ = ☐

ܕܘܪ̈ܫܐ (٥ - ٤)

…ܝܕ : ܐܫܟܚ ܠܡܦܩ̈ܢܐ :

(٣٥٠ ÷ ٧٠ (٢) ٧٥٠٠ ÷ ٥٠ (٣) ٤٠ ٠٠٠ ÷ ٤٠٠

(٤٥ ٠٠٠ ÷ ٩٠ (٥) ٢٧٠ ٠٠٠ ÷ ٣٠٠٠ (٦) ٦٠ ٠٠٠ ÷ ٣٠٠

(٢٨٠ ٠٠٠ ÷ ٤٠٠٠ (٨) ١٨٠ ٠٠٠ ÷ ٩٠٠ (٩) ٢٤٠ ٠٠٠ ÷ ٨ ٠٠٠

…ܒ : ܫܠܡ :

(٤ ٥٠٠ ÷ ☐ = ٥ (٢) ٣٦ ٠٠٠ ÷ ☐ = ٦

(☐ ÷ ٧٠ = ٣ (٤) ١٨٠ ٠٠٠ ÷ ☐ = ٢٠

(☐ ÷ ٢ ٠٠٠ = ٥ (٦) ٤٢٠ ٠٠٠ ÷ ☐ = ٦٠

ܦܠܚܐ : ܫܪܝ ܠܫܘܐܠܐ ܕܐܬܝ :

١ - ܦܝܫܠܗ ܙܒܝܢܐ ܠܦܠܓܘܬܐ ܕ ٦٩٠ ܬܠܡܝܕܐ ܒܫܘܝܘܬܐ ܠܨܦܝܬܐ ܡܢ ܟܠܕܐ ܨܦܐ ܒܠ ܚܕ ܗܘܐ ٣٠ ܬܠܡܝܕܐ. ܟܡܐ ܟܠܕܐ ܗܘܝܐ ܗܘܐ ܒܐܪܘܐ؟

٢ - ܐܚܝܕܐ ܕܕܪܓܬܐ ܦܠܝܛ ܡܝܬܐ ܕ ٢٠٠ ܡܝܘܢܐ ܒܟܠ ܫܢܬܐ، ܒܟܡܐ ܠܝܪܚܐ ܕܦܠܝܛ ܠܗ̇ ܡܝܬܐ ܕ ٦ ܒܝܠܘܡܝܘܢܐ.

٣ - ܦܝܫܠܗ ܙܒܝܢܐ ܠܡܠܟܐ ܕܟܫܘܝܘܬܐ ܒܝܢ ܕܟܬܐ ܡܐܬܐ ٦٠٠٠٠ ܠܐܘܪܐ ܒܟܘܠܟܐ ܗܘܝܠ ܒܠ ܚܕ ٣ ܒܝܠܘܠܐܘܪܐ ܕܕܟܬܐ. ܟܡܐ ܟܘܠܟܐ ܗܘܝܐ ܠܕܐܪܘܐ ؟





ܟܢܫܐ ܕܡܫܘܚܬܐ ܕܙܘܝܬܐ ܕܥܠ ܡܬܝܚܬܐ = ١٨٠°

ܦܣܘܩܐ ܫܬܝܬܝܐ

ܙܘܝܬܐ ܘܡܫܘܚܬܐ ܚܕܬܐ

٦ - ١ ܫܘܝܘܬܐ ܕܡܫܘܚܬܐ ܕܙܘܝܬܐ

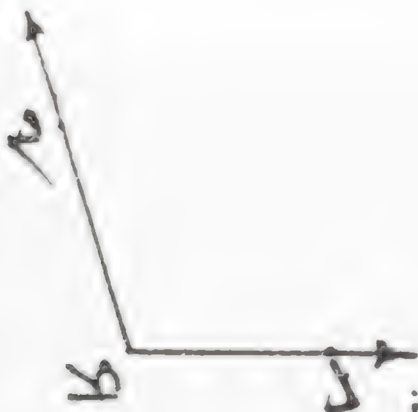
ܚܙܝ ܟܠ ܙܘܝܬܐ ܕܠܬܚܬ ܘܦܫܘܛ ܙܘܝܬܐ ܕܗܝ ܡܫܘܚܬܐ ܫܘܝܐ.



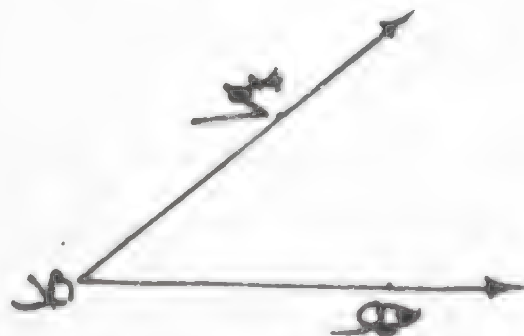


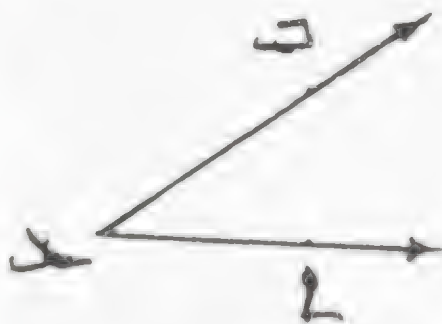
ܙܘܝܬܐ ܕܡܫܘܚܬܗ ܫܘܝܐ ܠܗ :





ܙܘܝܬܐ ܕܡܫܘܚܬܗ ܫܘܝܐ ܠܗ :

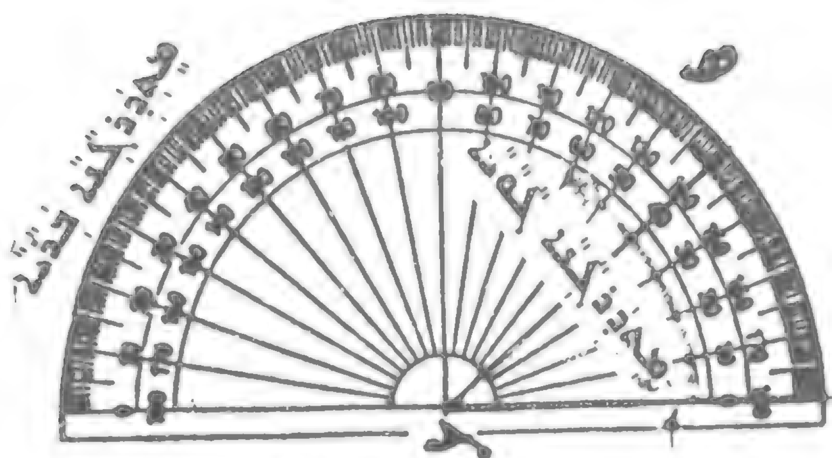




ܙܘܝܬܐ ܕܡܫܘܚܬܗ ܫܘܝܐ ܠܗ

ܨܘܪܬܐ (٦ - ١)

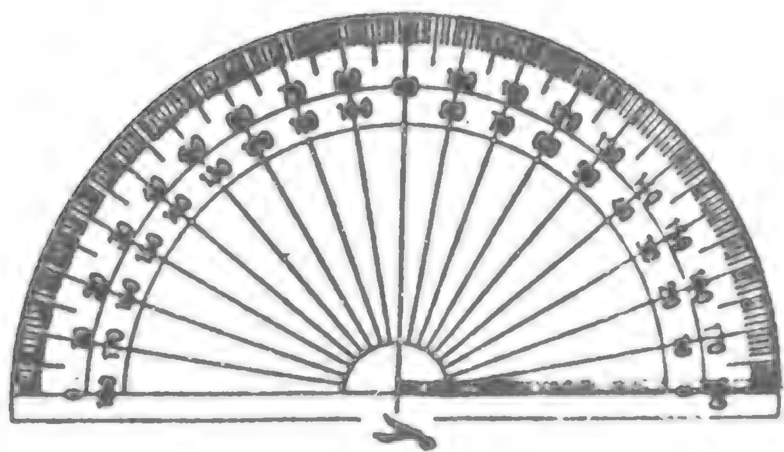
ܗܕܐ ܕܐܬܠܝܬܘܢ ܫܘܝܘܬܐ ܠܗ ܬܪܬܝܢ ܠܐܢܫܝܢ، ܙܘܝܬܐ ܐܚܪܢܝܬܐ ܗ ܐ̂ ܕ ، ܐ ܒ̂ ܓ ܕܡܬܚܙܝܐ ܒܠܚܘܕ. ܘܐܠܐ ܒܥܠܠ ܗܘܝܐ ܕܝܕ ܗܕܐ ܗܝ ܫܘܝܘܬܐ ܕܡܫܘܚܬܐ ܕܙܘܝܬܐ ܘܡܫܘܚܬܐ ܥܒܝܕܬܐ ܠܡܫܘܚܬܐ ܒܝܕ ܗܝ ܡܫܘܚܬܐ ܠܗ ܬܪܬܝܢ ܙܘܝܬܐ.



ܨܘܪܬܐ (٦ ـ ٢)

...ܕܡܘܦܠܣܠܝ (ܟܢܘܫܬܐ) ܗܘܝܐ ܠܡܫܘܚܬܐ ܕܙܘܝܬܐ
...ܠܐ ܗܕܝܪܐ ܘܦܠܣܠܝ ܒܣܦܪܘܬܐ
...ܝܐ ܠܡܫܘܚܬܐ ܕܙܘܝܬܐ ܡܬܩܪܐ (ܦܪܘܬܪܟܬܘܪ) ،
...ܦܠܝܓ ܠܡܐܐ ܡܢܘܬܐ
...ܨܘܪܬܐ (٦ ـ ٢) ܘܦܩܚܐ ܡܪܟܙܐ (ܢܩܠܬܐ) ܗܝ
...ܬܐ ܕܡܫܘܚܬܐ ܕܙܘܝܬܐ.

ܘܡܢܝܢܬܐ ܕܡܫܘܚܬܐ ܕܙܘܝܬܐ ܝܠܗ (ܕܪܓܐ)
...ܚܐ ܪܫܝܡܬܐ (°) ܘܝܠܗ ܡܫܘܚܬܐ ܕܙܘܝܬܐ



ܨܘܪܬܐ (٦ ـ ٣)

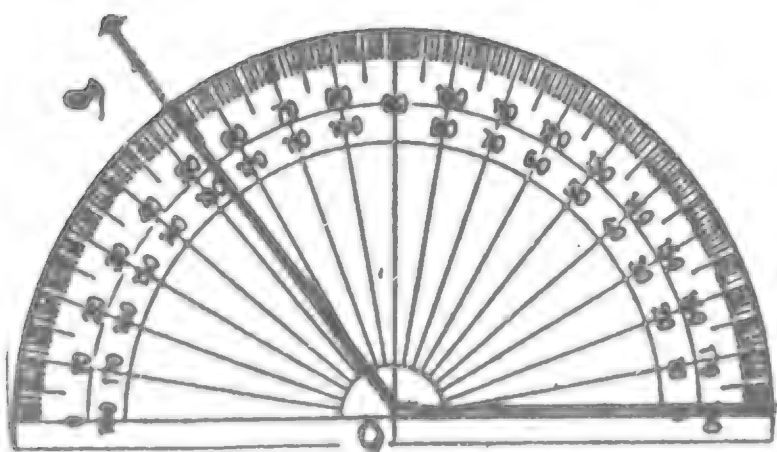
ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܕ $\hat{ܐܒ}$ = ١

...ܪܝܢ ܡܘܚܘܝܬܐ ܝܠܗ ܒܨܘܪܬܐ (٦ ـ ٣) ،
...ܘܕܝܢ ܡܫܘܚܬܐ ܕ $\hat{ܐܒ}$ = ١° ܚܕ ܕܪܓܐ
...ܡܬܦܪܫܢܘܬܐ ܒܝܢ ܢܩܠܬܐ ܚܕ ܚܕܬܐ
...ܝܬܐ ܟܠܝܐ. ܘܟܠ ܡܬܦܪܫܢܘܬܐ ܟܐ ܗܘܝܐ
...ܠܗ ܣܪܓܐ ܕܡܫܘܚܬܐ ܕܡܟܝܠܬܐ ܘܗܝܐ ܕܪܓܐ ،
ܕܪܓܐ، ܬܪܝܢ ܕܪܓܐ،
...ܗܕܝ، ܗܠܝܢ، ... ܗܠ ١٨٠°، ܘܗܘܝܐ ܟܠ ܚܕ ܡܢ ܚܕ ܕܪܓܐ.
...ܨܘܪܬܐ (٦ ـ ٢) : ܗܝ

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܕ $\hat{ܐܒ}$ ؟

...ܗܘܝܐ ܕܪܝܐ ܕܙܘܝܬܐ ܠܗ ܡܪܟܙܐ ܕܢܩܠܬܐ، ܘܣܪܓܐ ܕܡܫܘܚܬܐ ܕܙܘܝܬܐ
...ܒܝܢ ܚܕ ܣܛܪܐ ܕܙܘܝܬܐ ܕ $\hat{ܐܒ}$، ܘܗܘܝܐ ܡܢܝܢܐ ܒܝܢ ܡܬܦܪܫܢܘܬܐ ܟܠܝܐ ܘܝܠܗ
ܘܝܠܗ ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܕ $\hat{ܐܒ}$.

...ܒܨܘܪܬܐ (٦ ـ ٤)، ܘܐܝܟ ܡܫܘܚܬܐ ܕܙܘܝܬܐ
...ܗ.
...ܗܘܝܐ ܪܫܝܡܬܐ ܗܟܠܬܐ ܠܣܪܓܐ ܕܡܫܘܚܬܐ ܕܡܟܝܠܬܐ
...ܠܡܬܦܪܫܢܘܬܐ ܕܗܘܝܐ
...ܗܝܬܐ (ܡܬܦܪܫܢܘܬܐ ܟܠܝܐ)

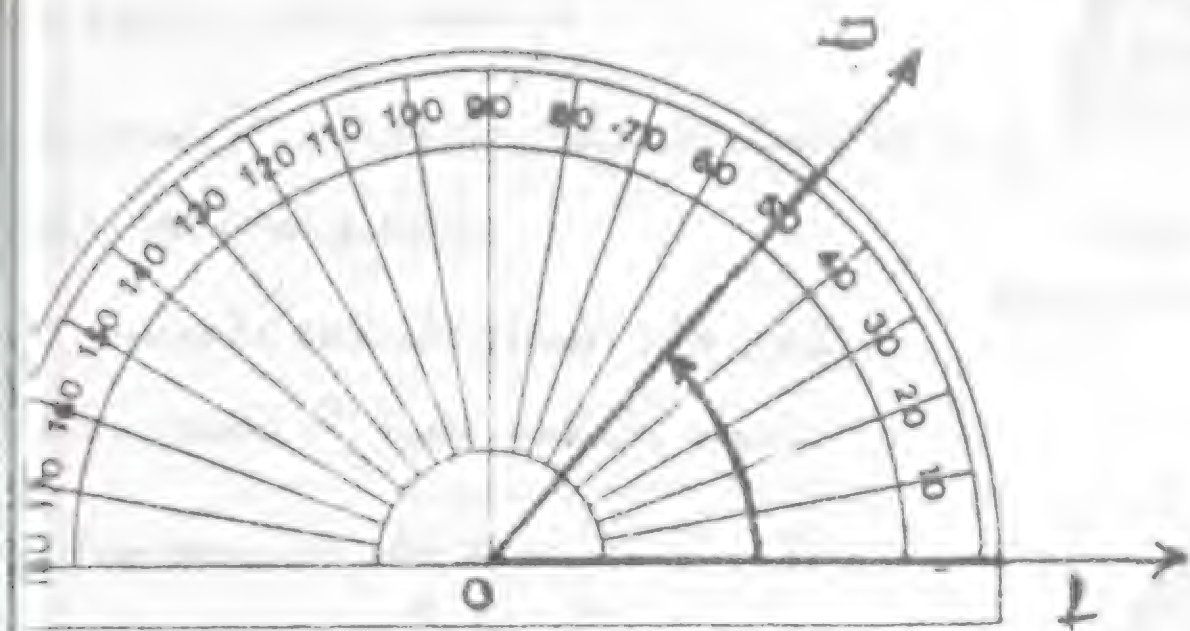


ܨܘܪܬܐ (٦ ـ ٤)

ܘܒܟܠ ܕܐܗܐ ܗܘܝܐ ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܕ ܗܘܗ = ١٢٦°

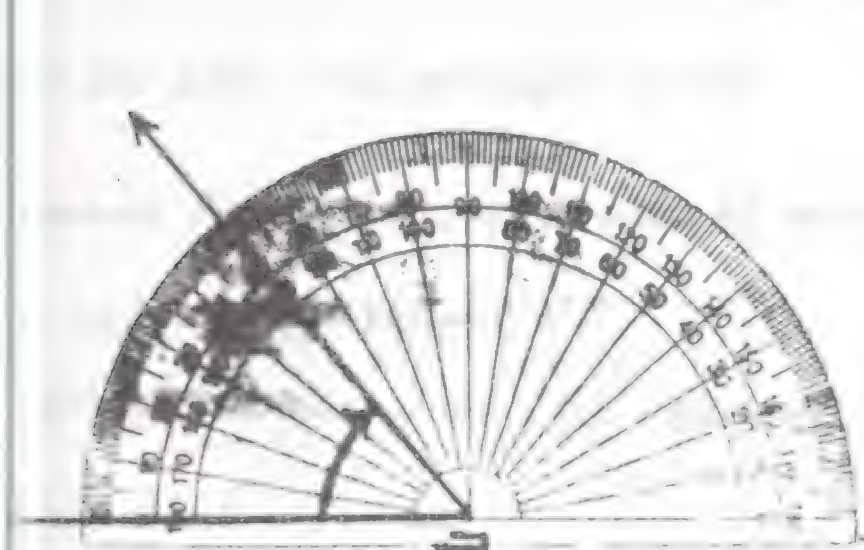
ܠܘܕܕܐ :

(ܐ) ܐܡܘܪ ܒܐܡܠܠܬܐ ܘܡܣܩܒܪܐ ܡܘܦܠܝܫܐ، ܘܚܫܘܒ ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܐ ܘ ܒ

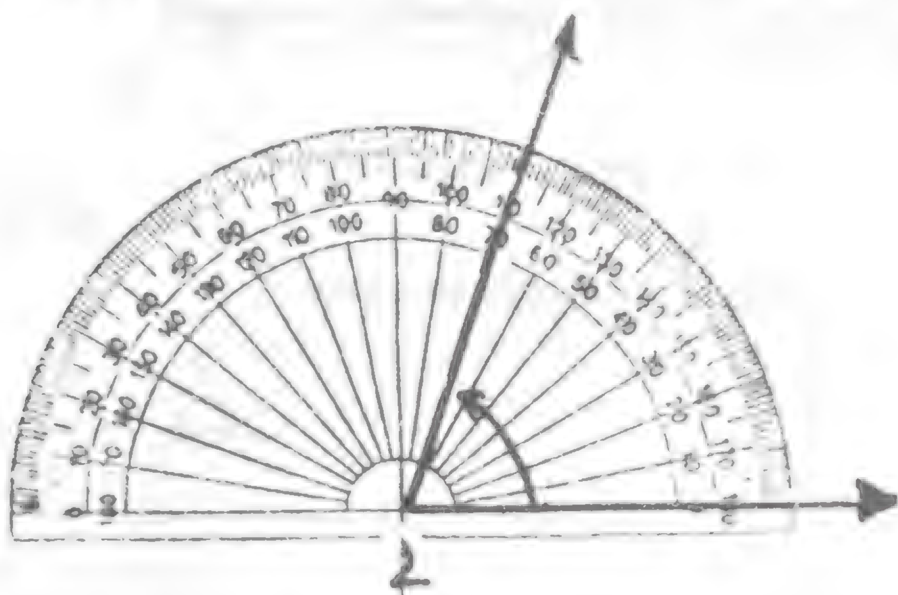


ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܐ ܘ ܒ = ٥٠

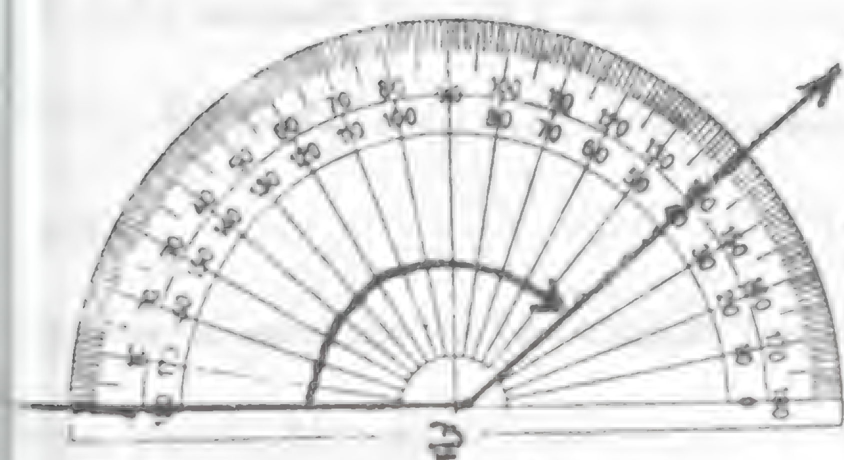
(ܒ) ܡܢܐ ܗܘܝܐ ܡܫܘܚܬ̈ܐ ܕܙܘܝܬ̈ܐ ܐ ، ܒ ، ܓ ، ܕ ؟



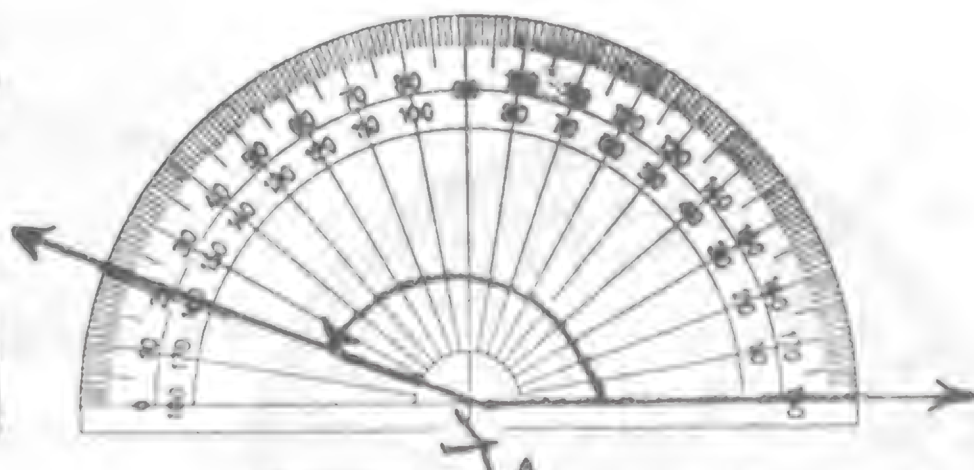
ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܒ = ☐



ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܐ = ☐



ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܕ = ☐



ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܓ = ☐

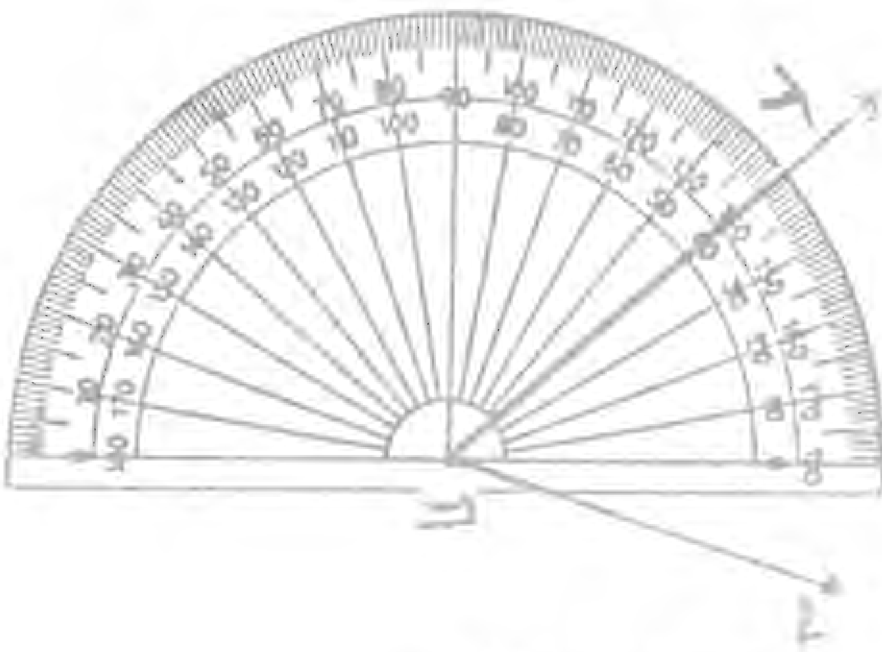
ܬܪܝܢܐ (2)

ܟܬܘܒ ܫܡܗܐ ܕܙܘܝܬܐ ܒ̂ ، ܓ̂ ، ܕ̂ ، ܗ̂ . ܘܡܫܘܚ ܐܢܝܢ ܒܡܫܘܚܬܐ ܕܙܘܝܬܐ
ܙܘܝܬܐ ܩܕܡܝܬܐ . ܕܝܠܗ ܐܝܟ ܙܘܝܬܐ ܚܪܝܦܬܐ ، ܐܘ ܦܬܝܚܬܐ ܕܡܫܘܚܬܐ ܕܙܘܝܬܐ

ܙܘܝܬܐ ܩܕܡܝܬܐ :

ܦܬܝܚܬܐ ☐ ܚܪܝܦܬܐ ☐

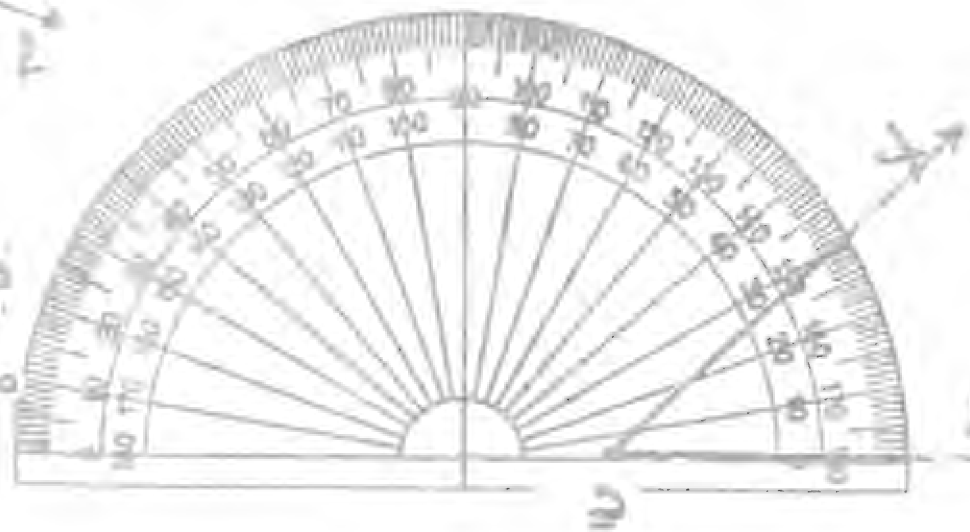
ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܒܡܕܪܓܬܐ ܕܡܫܘܚܬܐ = ☐

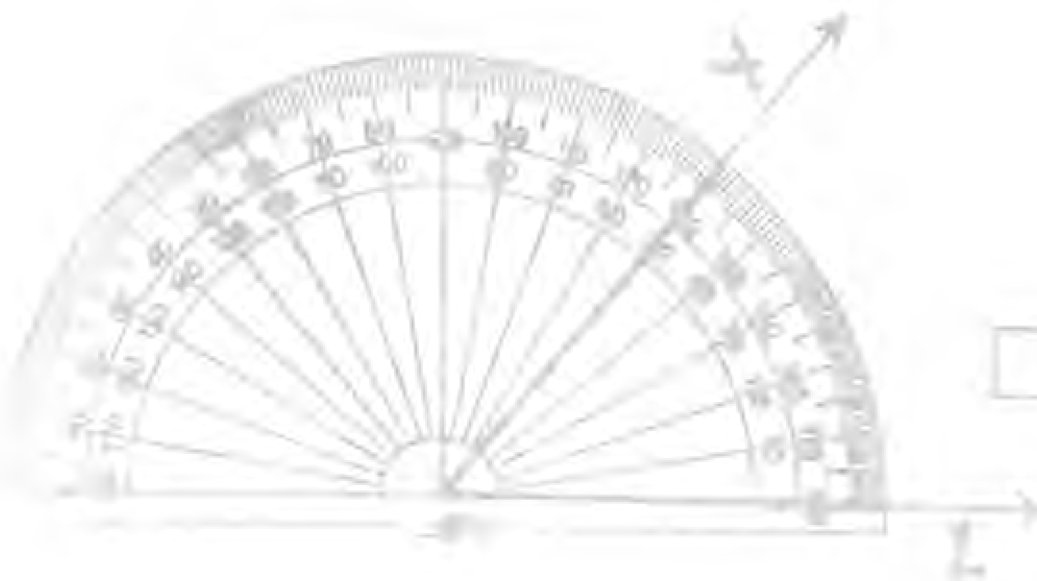


ܙܘܝܬܐ ܬܪܝܢܝܬܐ :

ܦܬܝܚܬܐ ☐ ܚܪܝܦܬܐ ☐

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܒܡܕܪܓܬܐ ܕܡܫܘܚܬܐ = ☐

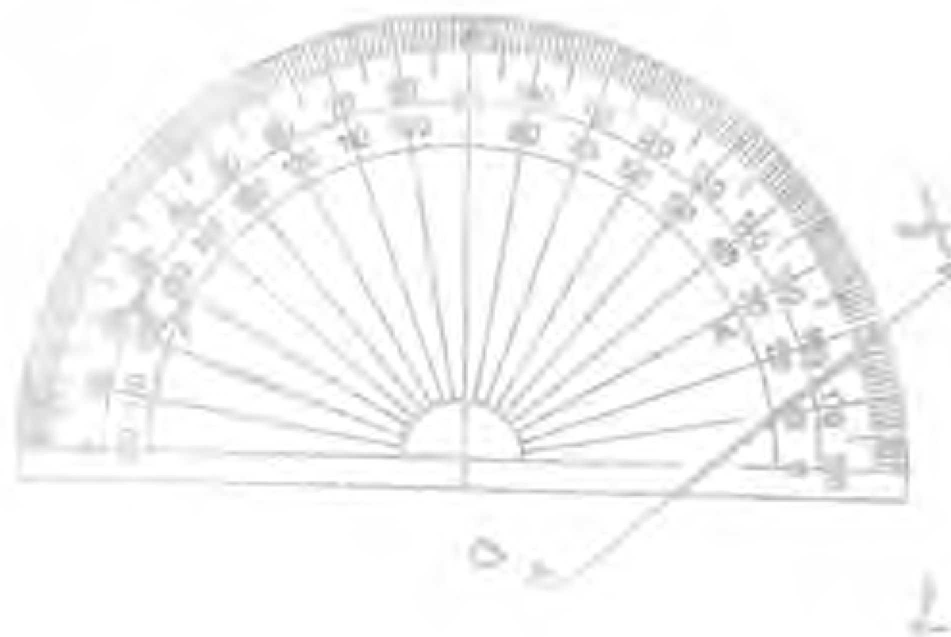




ܙܘܝܬܐ ܬܠܝܬܝܬܐ :

ܦܬܝܚܬܐ ☐ ܚܪܝܦܬܐ ☐

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܒܡܕܪܓܬܐ ܕܡܫܘܚܬܐ = ☐



ܕܘܪܫܐ (٦١ - ٢)

ܦܠܚܠܗ ܚܕ ܐܠܘܦܐ ܒܒܢܝܬܐ ܕܡܫܘܚܬܐ ܕܙܘܝܬܐ

ܘܡܫܘܚܠܝܗ ܐܢܝܢܐ ܡܦܠܚܬܐ ܗܕܝܟܐ

ܐܝܟ ܕܟܠ ܙܘܝܬܐ ܚܕܐ ܡܢܝܠܗ ܠܕܟܐ ܡܫܘܚܬܐ

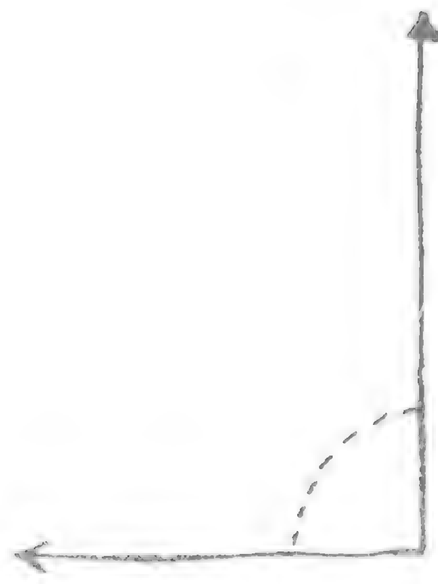
ܦܬܝܚܐ ܕܝܗܒ :

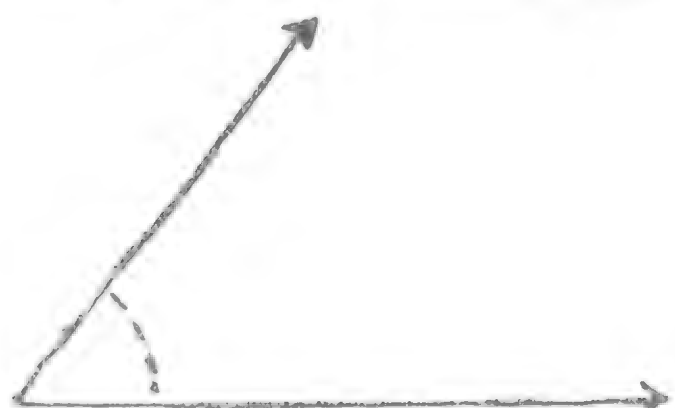
٦٥° ، ٥٥° ، ١٢٥° ، ١٣٥°

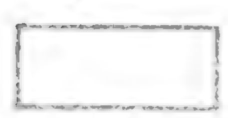
ܚܙܝ ܡܫܘܚܬܐ ܗܕܝܟܐ ܕܙܘܝܬܐ، ܘܚܙܝ ܡܦܬܚܬܐ ܕܝܩܠܬܐ ܕܐܠܡܝܢܐ ܕܐܠܗܘܢ ܦܘܪܫܐ.

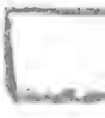
ܚܙܝ ܡܫܘܚܬܐ ܕܟܠ ܙܘܝܬܐ ܚܕܐ ܕܐܬܐ :

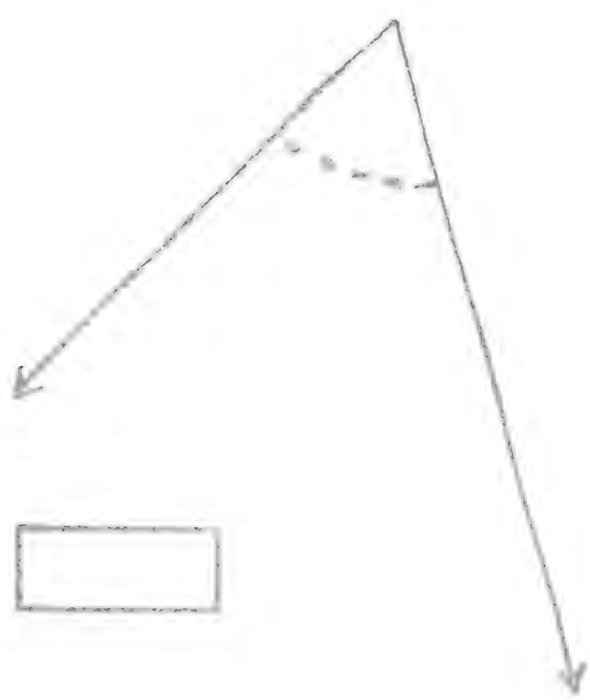
٣) ܦܠܘܚ ܙܘ̈ܝܬܐ ܠܗ ܫܡ̈ܗܐ ܕܡܫܘ̈ܚܬܐ ܕܟܠ ܙܘܝܬܐ ܬܚܝܬ ܕܠܥܠ :

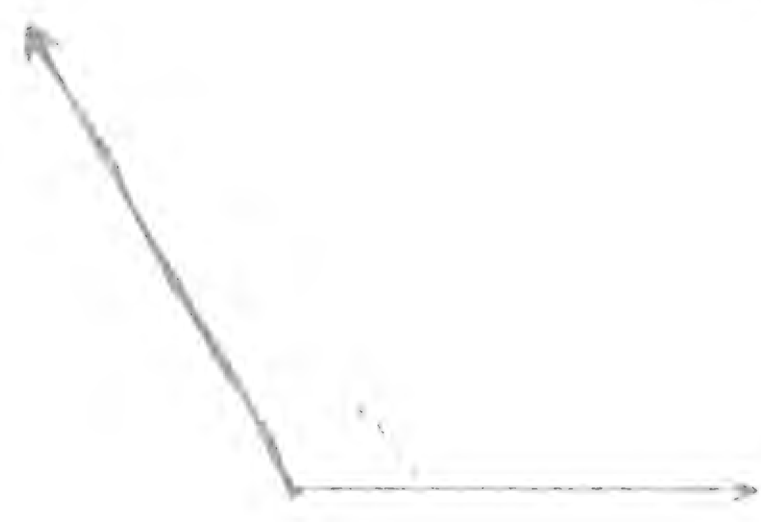


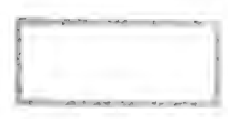


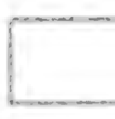


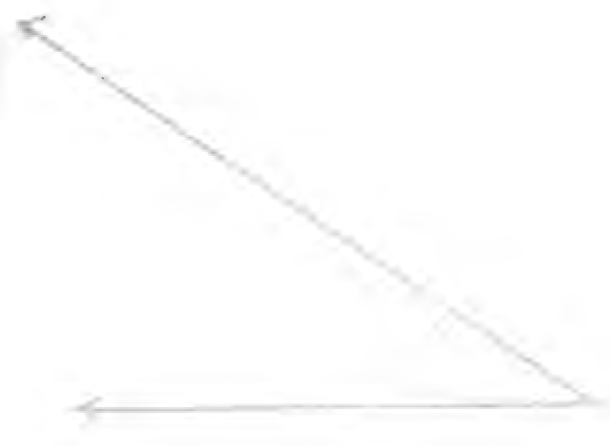








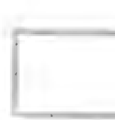












٩ - ٢ ܐܕܫܐ ܕܙܘܝܬܐ

ܒܗܝ ܡܫܘܚܬܐ ܕܥܡܠܝܬܐ ܚܙܝ ܐܕܫܐ ܕܟܠ ܙܘܝܬܐ : ܚܪܝܦܬܐ ، ܦܬܝܬܐ ، ܘܬܪܝܨܬܐ (ܩܝܡܬܐ

ܒܫܘܠܡܐ ܠܫܘܠܡܐ ܕܡܫܘܚܬܐ ܙܘܝܬܐ ܗܝ ܬܪܝܨܬܐ ܚܠܦ)

...ܝܠܗ ܠܬܠܡܝܕܐ ܐܦ ܝܕܝܥܬܐ ܕܡܫܘܚܬܐ ܕܟܠ ܙܘܝܬܐ ܡܢ ܟܡܐ ܙܘܝ̈ܬܐ ܕܦܠܚܐ.

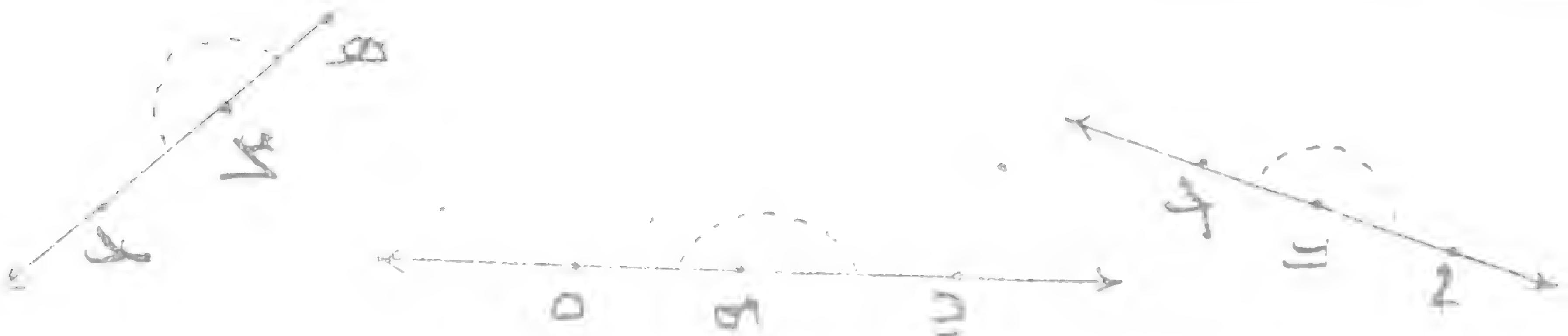
...ܕܗܘܝ ܒܡܘܢܝܐ ܕܐܝܟ ܠܥܠ . ܡܢܐ ܒܫܘܡܐ ܗܘܝܐ؟

ܐܢܐ ܡܚܘܝܐ ܠܟܘܢ ܠܦܠܚܬܐ ܕܐܬܝܢ :

- ܙܘܝܬܐ ܬܪܝܨܬܐ ܡܫܘܚܬܗ ܝܠܗ 90°
- ܙܘܝܬܐ ܚܪܝܦܬܐ ܡܫܘܚܬܗ ܝܠܗ ܒܨܝܪܐ ܡܢ 90°
- ܙܘܝܬܐ ܦܬܝܚܬܐ ܡܫܘܚܬܗ ܝܠܗ ܝܬܝܪ ܡܢ 90° ܘܒܨܝܪܐ ܡܢ 180°

...ܡܢ ܙܘܝܬܐ ܡܢ ܬܪ̈ܬܝܢ ܕܐܝܟ̈ܝܬܐ . ܟܠܐ ܡܬܩܪܝܐ (ܙܘܝܬܐ ܦܫܝܛܬܐ) ܕܡܫܘܚܬܗ ܝܠܗ 180°

ܙܘܝܬܐ ܦܫܝܛܬܐ ܡܫܘܚܬܗ 180°







ܡܫܘܚܬܐ ܐ ܒ̂ ܓ = ܡܫܘܚܬܐ ܕ ܗ̂ ܘ = ܡܫܘܚܬܐ ܙ ܚ̂ ܛ = 180°

ܦܘܠܚܢܐ : ܒܫܘܚܬܐ ܠܟܠܚܕ ܡܢ ܐܝܠܝܢ ܕܟܠ ܙܘܝܬܐ ܡܢ ܐܠܗܐ







ܡܢܝܢܐ ܝܠܗ ܠܡܕܥܬܐ ܕܡܬܠܡܝܕܘܬܐ̈، ܒܘܕ ܐܪ̈ܙܐ ܕܩܘ̈ܫܬܐ ܒܚܘܡܫܐ ܕܡܟܝܠܬܐ ܕܙܘܝܬܐ ܒܝܕܥܬܐ. ܒܟܠܗ ܐܢܫ ܐܪ̈ܙܐ ܒܘܕܐܝܬ ، ܐܢ ܝܗܘܐ ܚܪܝܦܬܐ ܡܟܝܠܬܗ ܝܗܘܐ ܒܨܝܪܐ ܡܢ ٩٠°، ܘܐܢ ܝܗܘܐ ܦܬܝܬܐ ܡܟܝܠܬܗ ܝܗܘܐ ܝܬܝܪܐ ܡܢ ٩٠° ܘܒܨܝܪܐ ܡܢ ١٨٠°. ܘܐܢ ܝܗܘܐ ܙܩܝܦܬܐ ܡܟܝܠܬܗ ܝܗܘܐ ٩٠°.

ܝܬܝܪ ܡܢ ܕܐܗܐ ܡܨܝܢ ܕܡܦܠܫܝܢ ܙܘܝܬܐ ܙܩܝܦܬܐ ܠܬܪܬܐ ܕܒܚܘܡܫܐ ܡܘܩܪܒܢܐ ܠܟܝܠܬܐ ܠܡܟܝܠܬܐ ܕܙܘܝܬܐ، ܘܗܕܐ ܐܝܟ ܡܚܘܝܢܐ ܝܠܗ ܡܢ ܓܘܫܡܐ ܓܠܝ̈ܢܐ ܕܐܬܐ:

(ܡܦܠܫ ܠܬܪܬܐ ܙܩܝܦܬܐ ܡܢ ܓܒ ܕܐܡܝܪܐ ܕܙܘܝܬܐ ܙܩܝܦܬܐ)

ܐ

ܒ ܓ

ܓܘܫܡܐ (١)

ܙܘܝܬܐ ܐ ܒ̂ ܓ ܚܪܝܦܬܐ

ܡܟܝܠܬܐ ܐ ܒ̂ ܓ < ٩٠°

ܘܒܚܘܡܫܐ ܝܬܝܪ ܙܘܝܬܐ ܙܩܝܦܬܐ ܡܬܦܠܓܐ ܝܠܗ ܕܡܟܝܠܬܐ ܕ ܐ ܒ̂ ܓ ܒܨܝܪܐ ܡܢ ٩٠° ܒܡܫܘܚܬܐ ܒܝܢ ١٥° ، ٢٠°.

ܒܗܕܐ ܕܗܠ ܒܡܫܘܚܬܐ ܒܝܢ ٧٠° ، ٧٥° ܒܚܘܡܫܐ ܡܘܩܪܒܢܐ ܠܟܝܠܬܐ ܠܡܟܝܠܬܐ ܐ ܒ̂ ܓ (ܡܟܝܠ ܠܙܘܝܬܐ ܒܡܟܝܠܬܐ ܘܚܙܝ ܠܐܪܝܗܘܢ ܦܠܓܐ̈).

ܓܘܫܡܐ (٢)

ܙܘܝܬܐ ܕ ܗ̂ ܘ ܚܪܝܦܬܐ

ܡܟܝܠܬܐ ܕ ܗ̂ ܘ < ٩٠°

ܡܟܝܠܬܐ ܕ ܗ̂ ܘ ܡܘܩܪܒܐ ܝܠܗ ܡܢ ܦܠܓܐ ܕܡܟܝܠܬܐ ܕܙܘܝܬܐ ܙܩܝܦܬܐ.

ܡܕܝܢ ٤٠° ܒܚܘܡܫܐ ܡܘܩܪܒܢܐ ܠܟܝܠܬܐ ܠܡܟܝܠܬܐ ܕܙܘܝܬܐ ܕ ܗ̂ ܘ.

(ܡܟܝܠ ܒܡܟܝܠܬܐ ܘܚܙܝ ܠܦܠܓܐ̈).

ܘ

ܗ ܕ

ܠܘܩܐ (٣)

ܙܘܝܬܐ ܗܒ̂ܓ ܟܪܝܬܐ، ܡܟܘܫܬܗ̇ > ٩٠° ܘܙܥܘܪܐ ܡܢ ١٨٠°.

ܡܟܘܫܬܐ ܕܗܒ̂ܓ ܝܬܝܪܐ ܡܢ ٩٠° ܒܝܕ ١٠ ܕܪ̈ܓܐ

ܡܢ ١٠٠° ܚܘܫܒܐ ܡܘܕܪ̈ܓܢܐ ܠܚܫܒܐ ܠܡܟܘܫܬܐ

ܙܘܝܬܐ ܗܒ̂ܓ.

ܡܢ ܠܙܘܝܬܐ ܗܒ̂ܓ ܒܐܡܠܝܬܐ

ܡܢ ܚܘܫܒܐ ܡܘܕܪ̈ܓܢܐ

(ܡܟܘܫܬܐ ܕܩܝܡܬܐ)

ܡܪ̈ܕܘܬܐ :

ܗܕܐ ܗܘ ܐܡܪܢܐ ܠܡܘܕܥܬܐ ܕܦܘܠܚܢܐ ܕܐܝܟ ܐܠܝܢܐ ܕܡܟܘܫܬܐ ܕܙܘܝܬܐ

ܐܡܠܝܬܐ :

- ܦܪܘܫ ܐܕ̈ܫܐ ܕܙܘܝܬܐ (ܚܪܝܦܬܐ - ܟܪܝܬܐ - ܩܝܡܬܐ) ܒܣܘܪܛܐ ܒܠܚܘܕ.

- ܚܫܘܒ ܡܟܘܫܬܐ ܕܙܘܝܬܐ ܒܡܕܪܓܢܐ ܕܙܘܝܬܐ ܩܝܡܬܐ.

- ܡܠܠ ܠܐܡܠܝܬܐ ܕܐܝܢܐ ܕܡܟܘܫܬܐ ܕܙܘܝܬܐ.

- ܦܪܘܫ ܡܟܘܫܬܐ ܕܙܘܝܬܐ ܕܩܝܡܬܐ ܡܢ ܕܒܚܘܫܒܠܗ.

ܕܘܪܫܐ (٦ - ٢)

١ - ܟܬܘܒ ܠܚܘܕ̈ܐ ܗܕܝ̈ܐ :

ܐ - ܡܢ ܒܝܢ ܡܟܘܫ̈ܢܬܐ ܕܦܪ̈ܫܐ ܩܕܡܐ، ܦܪܘܫ ܐܝܢܐ ܠܙܘܝܬܐ ܚܪܝܦܬܐ.

١٢٠° ، ٩٠° ، ٨٩° ، ٩٨°

ܒ - ܡܢ ܒܝܢ ܡܟܘܫ̈ܢܬܐ ܕܦܪ̈ܫܐ ܩܕܡܐ، ܦܪܘܫ ܐܝܢܐ ܠܙܘܝܬܐ ܟܪܝܬܐ.

٩٠° ، ٣٥° ، ٩٥° ، ٧٥°

ܓ - ܡܢ ܒܝܢ ܚܘܫܒܐ ܡܘܕܪ̈ܓܢܐ ܠܚܫܒܐ ܠܡܟܘܫܬܐ ܕܙܘܝܬܐ ܐܒ̂ܓ

٦٠° ، ٧٠° ، ١٠٠° ، ٢٠°

(ܕ - ܪܗܛܪܐ ܗܘ ܕܡܩܒܠ ܥܡ ܪܗܛܪܐ ܒ ܐ ܙܘܝܬܐ ܡܫܘܚܬܗ ٨٠° ܕܪܓܗ :

ܒ ܘ

ܒ ܟ

ܒ ܥ

ܒ ܦ

٢ - ܐܝܟ ܕܡܟܠܘܦ ܕܡܫܘܚܬܐ ܐ ܒ̂ ܓ
ܕܪܓܗ ٢٠°. ܡܚܘܠܦ ܠܗܕܐ ܠܡܫܚܬܐ ܕܡܘܬܪܐ
ܡܦܪ̈ܫܢܐ ܠܡܫܘܚܬܐ ܕܟܠ ܙܘܝܬܐ ܡܢ ܙ̈ܘܝܬܐ
ܡܢܝܢܐ ܡܢ (١) ܗܠ (٦). ܡܢ
ܡܚܘܠܦ ܡܠܟܝܬܐ ܡܢܝܢܐ ܕܡܫܘܚܬܐ ܕܟܠ
ܙܘܝܬܐ، ܘܦܩܘܕ ܠܡܠܟܝܢ.

(١)

(٢)

(٣)

(٤)

(٥)

(٦)

ܡܢ ܡܦܪܫܐ ܡܫܘܚܬܐ ܠܗܘܢ ܐܡܪ ܕܙܘܝܬܐ ܡܫܘܚܬܐ ܡܦܪ̈ܫܢܐ ܠܡܫܘܚܬܐ ܡܫܘܚܬܐ
ܡܫܘܚܬܐ ܠܡܫܘܚܬܐ.

٣ - ܟܬܘܒ ܡܫܘܚܬܐ ܕܟܠ ܙܘܝܬܐ ܡܢ ܕܠܬܚܬ ، ܐܢ ܝܕܥܬ ܡܫܘܚܬܐ ܚܕܝܬܐ.

(٦ - ٣) ܦܠܓܘܬܐ ܕܙܘܝܬܐ

ܦܠܓܘܬܐ ܕܙܘܝܬܐ ܥܒܝܕܬܐ ܝܠܗ ܦܠܓ ܒܦܘܠܚܢܐ ܕܚܘܛܐ ܩܢܝܐ ܘܗܘܐ ܒܦܠܓܘܬܐ ܕܗܝ ܙܘܝܬܐ ܠܬܪܬܝ ܡܢܘܬܐ ܒܫܘܝܘܬܐ ܕܫܘܝܐ. ܝܢܝ ܦܠܓܘܬܐ ܕܙܘܝܬܐ ܦܠܓܐ ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܒܦܠܓܐ ܠܬܪܬܝܢ ܦܠܓܘܬܐ ܐܝܟ ܚܘܛܐ ܩܢܝܐ.

ܘܗܕ ܐܠܝܢ ܝܠܗ ܒܗܕܐ ܛܘܦܣܐ :

ܛܘܦܣܐ (١)

ܦܠܘܓ ܙܘܝܬܐ ܐ ܒ ܓ ܡܫܘܚܬܗ ٥٠°

ܦܘܢܝܐ

- ܐܝܬܠܢ ܡܬܚܫܒܢܘܬܐ ܕܐܬܝ:
- ܦܬܚ ܕܙܘܝܬܐ ܝܠܗ ܢܘܩܙܐ ܒ.
- ܐܠܠܐ ܕܙܘܝܬܐ ܝܢܐ ܙܘܝܬܐ ܒ ܐ ، ܒ ܓ
- ܡܫܘܚܬܐ ܕܙܘܝܬܐ = ٥٠° ، ܘܗܕܐ ܡܘܚܠܐ ܝܠܗ ܕܙܘܝܬܐ ܚܪܝܦܬܐ.

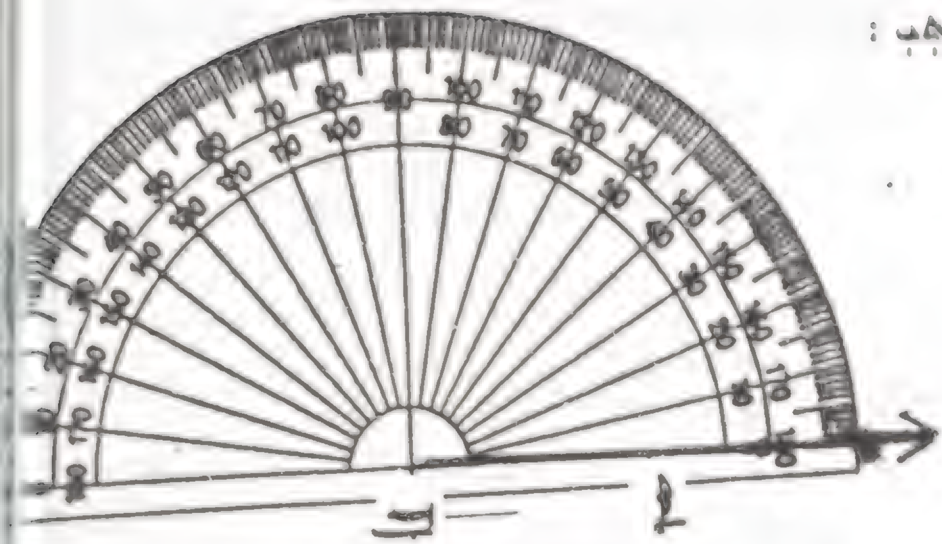
ܠܪܫܡܬܐ ܕܗܘܕܟܐ ܙܘܝܬܐ ܡܚܕܐ ܠܦܫܘܛܝܬܐ ܕܪܒ :

١ - ܪܫܘܡ ܚܕ ܣܛܪܐ ܕܙܘܝܬܐ ، ܒ ܐ ܐܝܟ ܛܘܦܣܐ.

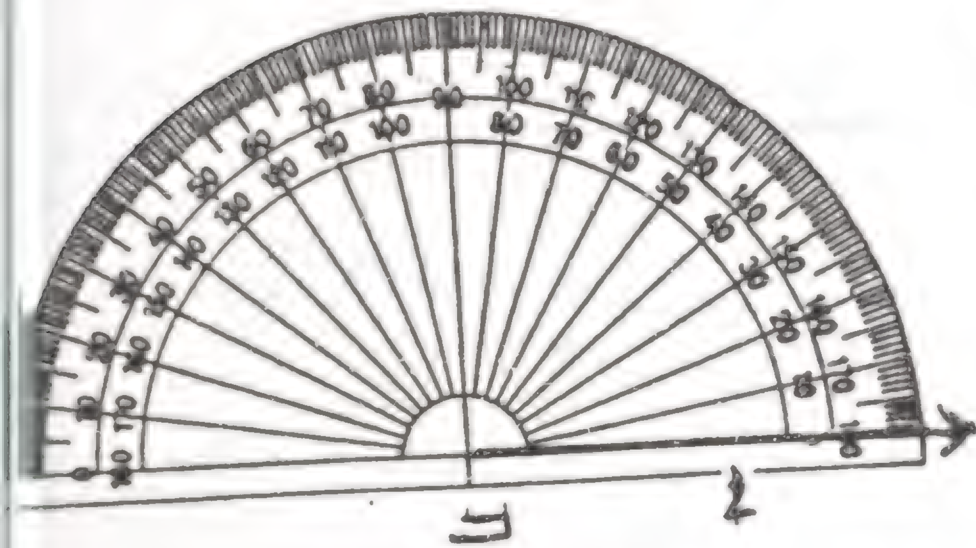
٢ - ܣܝܡ ܠܡܫܘܚܬܐ ܐܝܟ ܕܡܨܥܝ ܡܘܬܒܪܘܗ̇ ܥܠ ܪܝܫܐ ܕܙܘܝܬܐ ܒ ܘܡܨܥܝ ܣܪܓܠܐ ܕܡܘܪܝܐ ܕܡܫܘܚܬܐ ܥܠ ܣܛܪܐ ܕܙܘܝܬܐ ܒ ܐ ܕܪܫܝܡܠܗ.
ܨܘܪܬܐ (٦ - ٥ ܐ)

٣ - ܚܙܝ ܠܦܪܓܠܐ ܕܥܠܝܐ ܒܡܘܢܬܐ ܥܠ ܣܛܪܐ ܕܙܘܝܬܐ ܒ ܐ ܡܢ ܩܝܡ ܕܡܚܬܐ ܡܢܝܢܐ ܕܪܓܐ ٥٠°.
ܨܘܪܬܐ (٦ - ٥ ܒ)

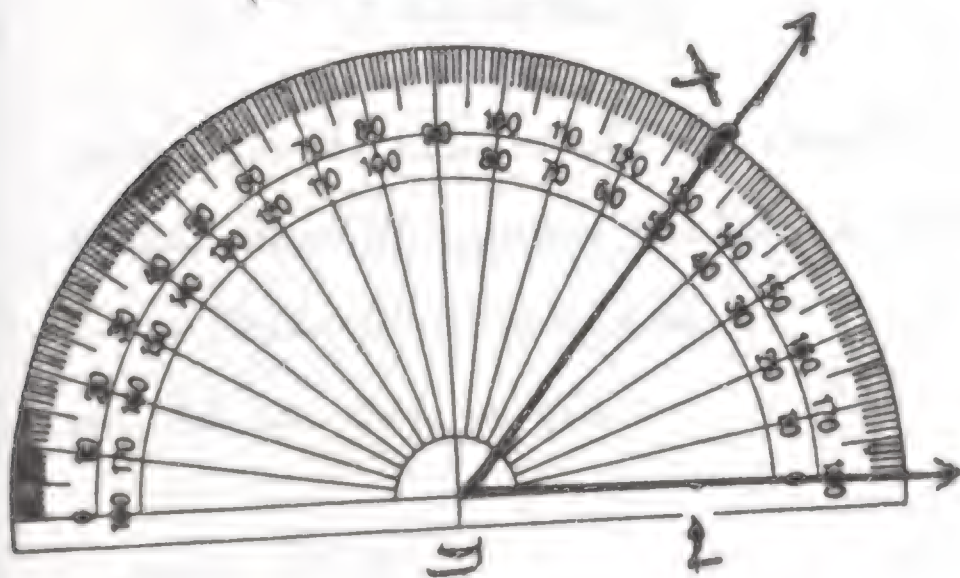
٤ - ܫܘܚ ܠܡܫܘܚܬܐ ܡܢ ܪܫܘܡ ܣܛܪܐ ܡܪܕܝܐ ܕܙܘܝܬܐ ܒ ܓ ܒܦܪܓܠܐ ܒܪܝܫܐ ܕܙܘܝܬܐ ܒ ܘܡܘܩܕܐ ܕܪܓܐ ܠܦܪܓܠܐ ٥٠°. ܘܡܢ ܬܡܢ ܝܠܗ ܠܦܪܓܠܐ ܡܢ ܡܕܝܘܬܐ ܕܦܘܠܚܢܐ ܒܦܪܓܠܐ ܕܡܫܘܚܬܐ ܘܐܝܬܐ ܡܫܘܚܬܐ ܕܙܘܝܬܐ.
ܨܘܪܬܐ (٦ - ٥ ܓ)



ܨܘܪܬܐ (٦ - ٥ ܐ)



ܨܘܪܬܐ (٦ - ٥ ܒ)



ܨܘܪܬܐ (٦ - ٥ ܓ)

ܛܘܦܣܐ (٢)

ܪܫܘܡ ܙܘܝܬܐ ܕ ܗ̂ ܘ ܕܡܫܘܚܬܗ̇ ١٤٠°.

ܫܪܝܐ:

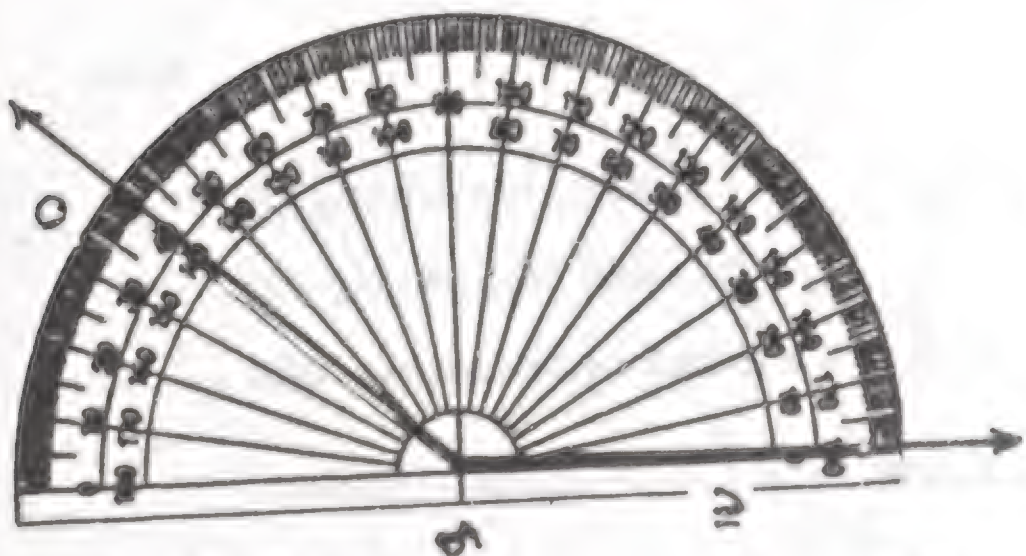
ܝܕܝܥܐ ܠܗ :

- ܪܝܫܐ ܕܙܘܝܬܐ ܝܠܗ ܢܘܩܙܐ ܗ.

- ܣܛܪܐ ܕܙܘܝܬܐ ܗ ܕ ، ܗ ܘ.

- ܙܘܝܬܐ ܝܠܗ ܟܦܝܦܬܐ ܘܡܫܘܚܬܗ̇ ١٤٠°.

ܒܡܚܕܐ ܠܦܫܘܛܝܬܐ ܚܕܝܐ ܒܫܘܡܗ ܒܪܫܡܢܢ ܠܙܘܝܬܐ ܕ ܗ̂ ܘ ܨܘܪܬܐ (٦ - ٦)



ܨܘܪܬܐ (٦ - ٦)

ܕܘܪܫܐ (٦ - ٣)

١ - ܟܬܘܒ ܠܙܘܝܬܐ ܕܡܫܘܚܬܗ ؟

(ܐ) ٤٥°	(ܒ) ٩٠°	(ܓ) ٧٢°
(ܕ) ١٠٠°	(ܗ) ١٢٨°	(ܘ) ١٥٠°

٢ - ܬܪܘܨ ܒܟܬܒܐ ܕܙܘܝܬܐ ܒܟܠ ܚܕ ܡܢ ܕܐܬܝܐ :



(ܐ) ܙܘܝܬܐ ܐ ܒ ܓ

ܡܫܘܚܬܗ ٦٠°



(ܒ) ܙܘܝܬܐ ܗ ܙ ܓ

ܡܫܘܚܬܗ ١١٠°



(ܓ) ܙܘܝܬܐ ܕ ܗ ܘ

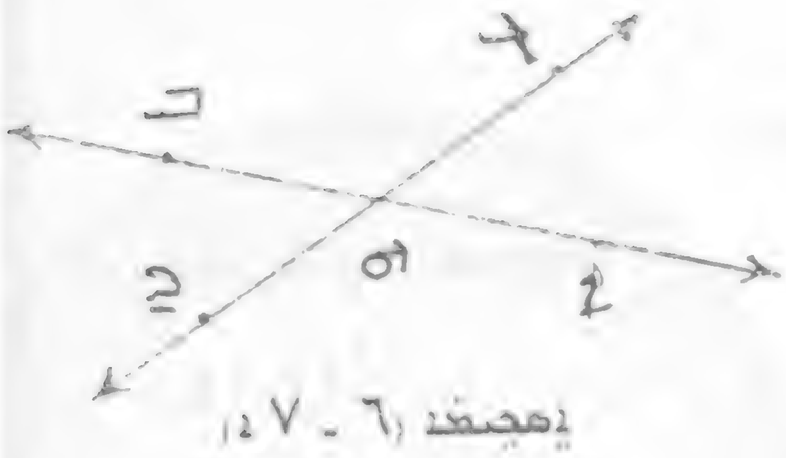
ܡܫܘܚܬܗ ٩٠°

٣ - ܟܬܘܒ ܙܘܝܬܐ ܒ ܐ ܓ ܡܫܘܚܬܗ ٣٠°. ܢܓܕ ܥܠ ܦܘܪܫܐ ܐ ܒ ܢܘܩܙܐ ܕ ܒܐܝܕܐ ܕܗܘܐ ܡܘܪܟܐ ܕܦܘܪܫܐ ܐ ܕ = ٥ ܣܡ، ܘܢܓܕ ܥܠ ܦܘܪܫܐ ܐ ܓ ܢܘܩܙܐ ܐܚܪܬܐ ܐܝܟ ܗ ܐܝܟܢܐ ܕܗܘܐ ܡܘܪܟܐ ܕܦܘܪܫܐ ܐ ܗ = ٥ ܣܡ. ܘܢܓܕ ܦܘܪܫܐ ܢܘܩܙܐ ܕ ، ܗ.

ܬܪܘܨ ܒܡܟܝܠܬܐ ܕܙܘܝܬܐ ܡܫܘܚܬܐ ܕܟܠ ܚܕ :

ܕ ܗ ܐ ، ܗ ܕ ܐ. ܡܢܐ ܡܚܙܝܐ ܐܢܬ؟

٦ - ٤ : ܦܓܥܐ ܕܬܪܝܢ ܣܪ̈ܛܐ ܦܫܝܛ̈ܐ



ܨܘܪܬܐ (٦ - ٧ ܐ)

ܒܨܘܪܬܐ (٦ - ٧ ܐ) ܡܚܘܝܢ ܠܗ ܦܓܥ ܦܫܝܛܐ :

ܐܒ ، ܓܕ ܘܩܪ̈ܝܢܢ ܠܗܘܢ ܡܥܒܪܬܐ ܕ :

ܗ ܡܬܚܬܐ ܠ ܐܒ

ܗ ܡܬܚܬܐ ܠ ܓܕ ،

ܗܳܕܶܐ ܗ ܡܬܚܬܐ ܠܬܪܘܝܗܝܢ : ܐܒ ∩ ܓܕ

ܒܐܗܐ ܐܦܬܚܘܬܐ ܐܡܪܝܢܢ ܠܬܪܘܝܗܝܢ ܦܫܝܛܐ ܕܦܓܥܝܢ ܚܕ ܒܚܕ ، ܘܢܘܩܙܐ ܕܦܓܥܬܗܘܢ ܗ.

ܚܙܝ ܕܦܓܥܝ ܦܣ̈ܩܐ ܦܫܝܛܐ ، ܚܘܝ ܨܘܪܬܐ (٦ - ٧ ܒ):

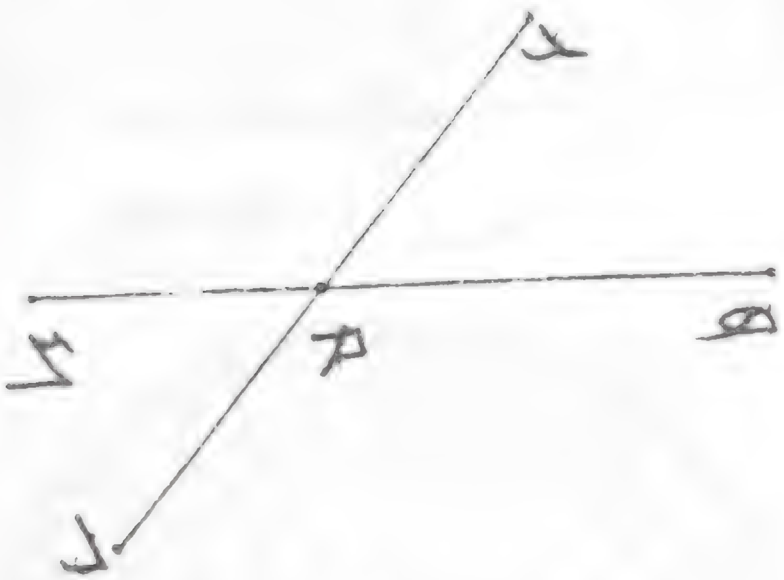
ܚ ܡܬܚܬܐ ܠܦܣ̈ܩܐ ܦܫܝܛܐ ܗܙ

ܚ ܡܬܚܬܐ ܠܦܣ̈ܩܐ ܦܫܝܛܐ ܛܝ

ܚ ܡܬܚܬܐ ܠ : ܗܙ ∩ ܛܝ

ܦܣ̈ܩܐ ܦܫܝܛܐ ܗܙ ، ܛܝ

ܦܓܥܝܢ ܚܕ ܒܢܘܩܙܐ ܚ.



ܨܘܪܬܐ (٦ - ٧ ܒ)

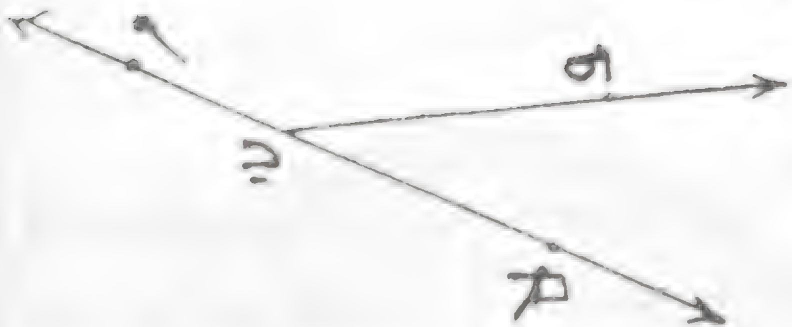
ܘܚܙܝ ܕܦܓܥ ܦܫܝܛܐ ܒܙܪܘܩܬܐ ܨܘܪܬܐ (٦ - ٧ ܓ)

ܕ ܡܬܚܬܐ ܠܙܪܘܩܬܐ ܕܗ

ܕ ܡܬܚܬܐ ܠܦܫܝܛܐ ܚܒ

ܕ ܡܬܚܬܐ : ܕܗ . ∩ ܚܒ .

ܦܫܝܛܐ ܚܒ ، ܘܙܪܘܩܬܐ ܕܗ ܦܓܥܝܢ ܚܕ ܒܢܘܩܙܐ ܕ.

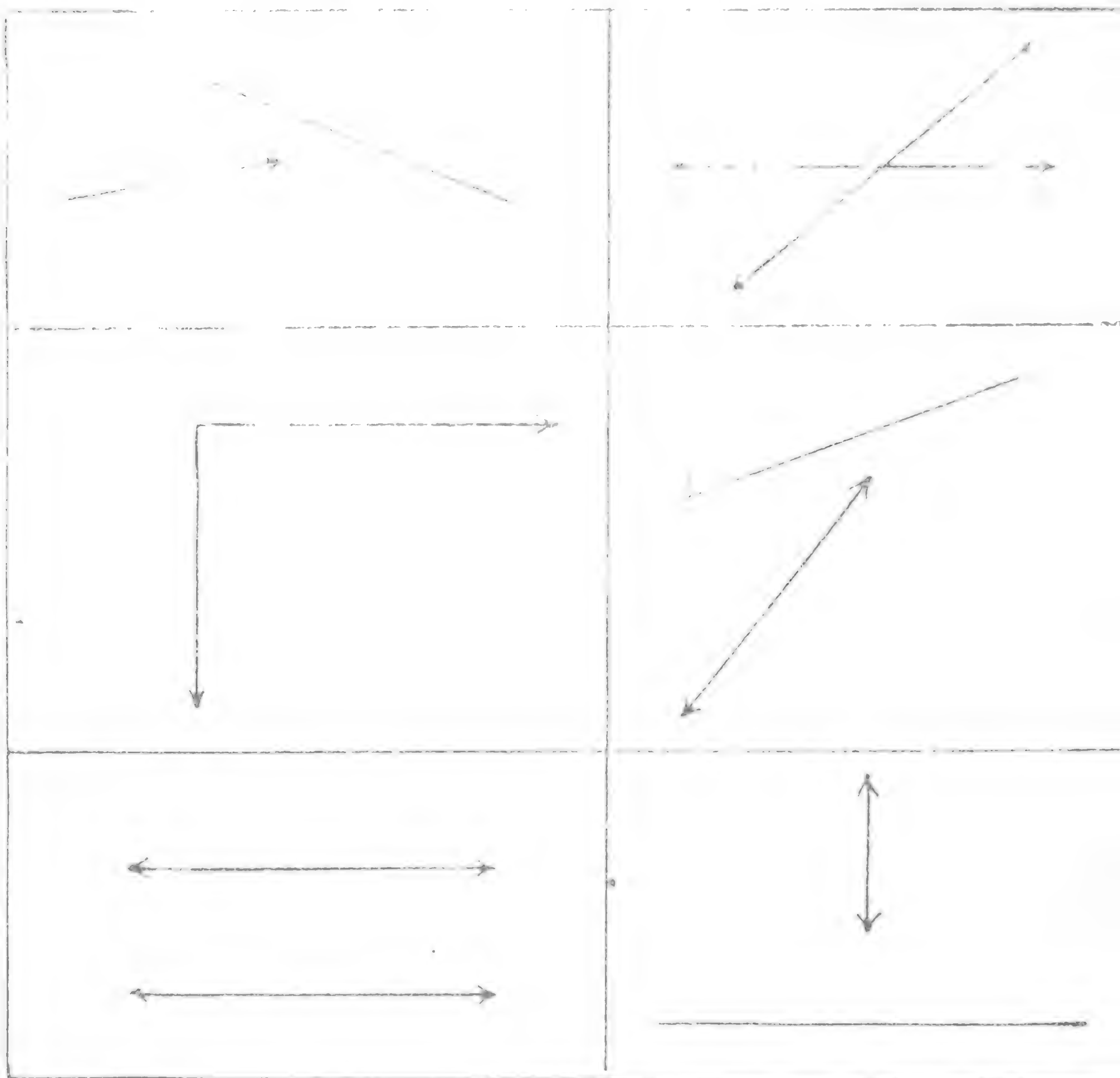


ܨܘܪܬܐ (٦ - ٧ ܓ)

(ܢܘܩܙܐ ܕܦܓܥܬܐ ܠܝܬ ܨܘܪܬܗ ܒܚܕܐ ܡܢܘܩܙܬܐ ܕܦܓܥܬܐ).

ܚܘܪ̈ܓܐ

ܢܣܝܢ ܢܘܣܘܚܐ ܕܡܠܟܬܐ (ܢܣܝܢ ܠܐܘܪܚܐ ܐ، ܚܩܝܢܘܬܗ)



ܐ ܚܘܪܐ ܗܘܐ ܒܐܡܝܢܘܬܐ ܐܚܪܢܐ ؟

ܘܬܚܘܐ ܝܠܗ ܚܘܪ̈ܓܐ ܕܐܘ ܩܘܢܝܐ ܡܢܘܬ̈ܐ ܒܢܘܣܘܚܐ ܕܚܘܪܐ، ܘܝܠܝ ܕܝܗܐ ܡܠܟܬܐ

ܘܕܝܢ ܗܕܡܝܐ ܬܠܝܬ ܡܢܗ ܐܚܪܢܐ ܘܩܛܝܐ - ܚܘܝ ܐܡܢܝܬܐ (٦ - ٨)

ܐܪܒܥܗ، ܘܩܛܝܐ ܕܒܪܐ ܗ ܒܐܢܗ.ܘܝܠܗ ܢܘܣܘܚܐ ܕܡܠܟܬܐ ܕܗܕܡܝܐ $\overleftrightarrow{ܐ ܒ}$، $\overleftrightarrow{ܓ ܕ}$. ܐܢܝ

ܘܩܛܝܐ ܝܕܥܐ :

$\hat{ܐ ܒ ܓ}$ ، $\hat{ܕ ܒ ܐ}$ ، $\hat{ܕ ܒ ܓ}$ ، $\hat{ܓ ܒ ܐ}$.

ܩܣܘܒ ܬܪܝܢ ܙܘܝ̈ܬܐ :

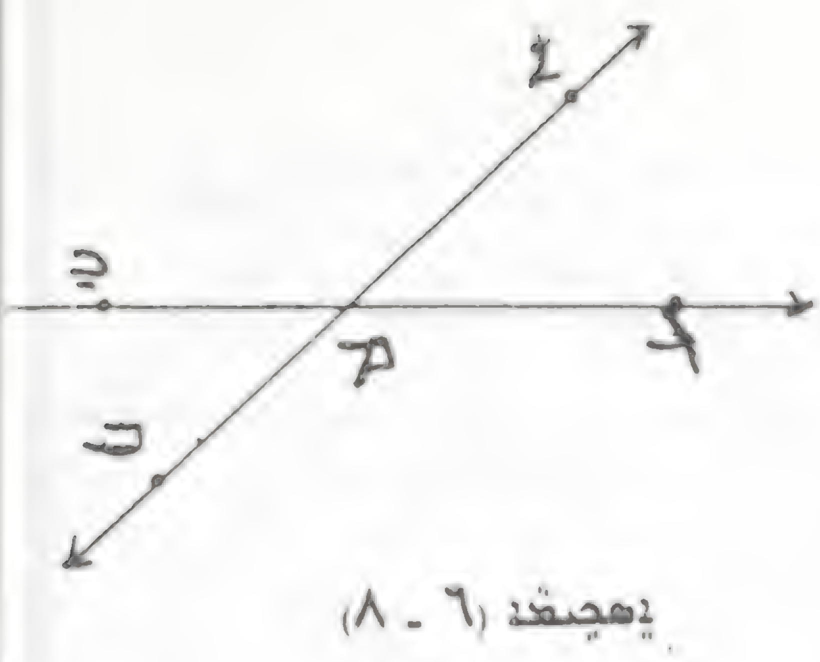
ܐܡ̂ܓ ، ܒܡ̂ܕ

ܙܘܝ̈ܬܐ ܕܩܒܠܐ ܒܪܟܬܐ

ܘܩܣܘܒ ܬܪܝܢ ܙܘܝ̈ܬܐ :

ܐܡ̂ܕ ، ܒܡ̂ܓ

ܙܘܝ̈ܬܐ ܕܩܒܠܐ ܒܪܟܬܐ

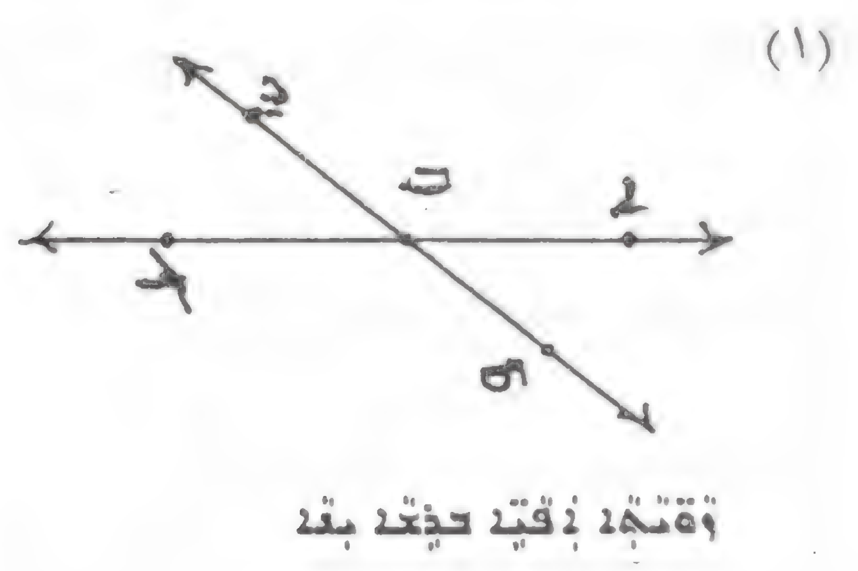


ܨܘܪܬܐ (٦ ـ ٨)

ܬܘܪܕܐ (١)

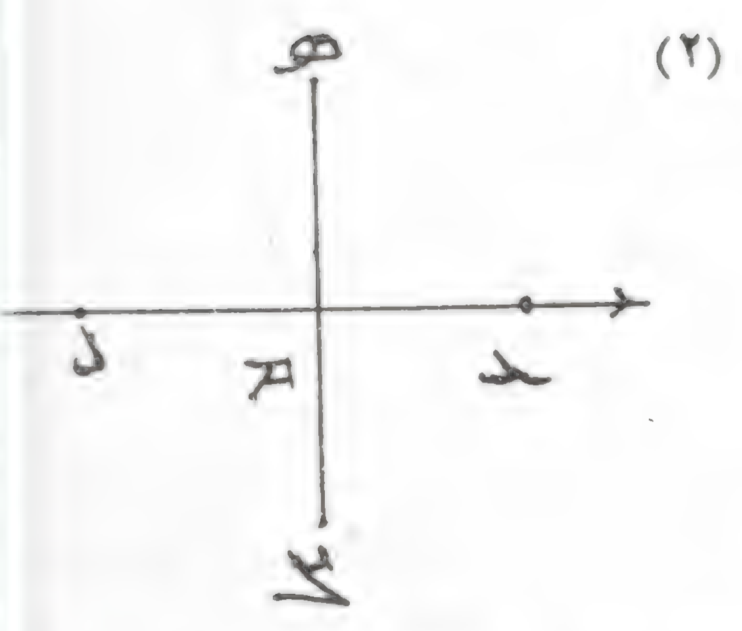
ܦܝܫ ܙܘܝ̈ܬܐ ܕܩܒܠܐ ܒܪܟܬܐ ܒܟܠ ܚܕ ܕܨܘܪܬܐ (ܐܢ ܐܝܬ)

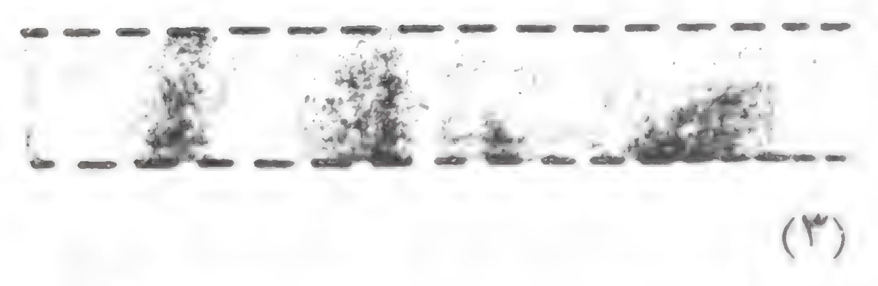
(١)



ܙܘܝ̈ܬܐ ܕܩܒܠܐ ܒܪܟܬܐ ܝܢܐ

(٢)

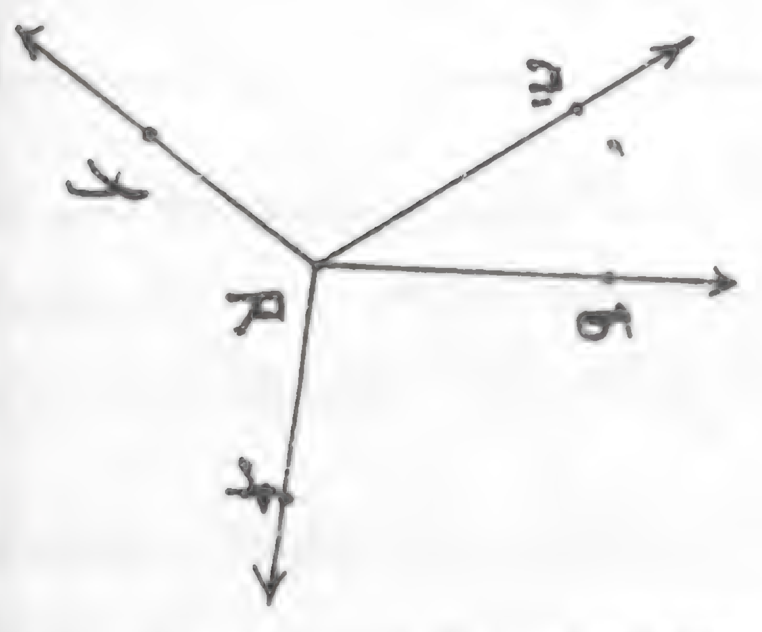




(٣)

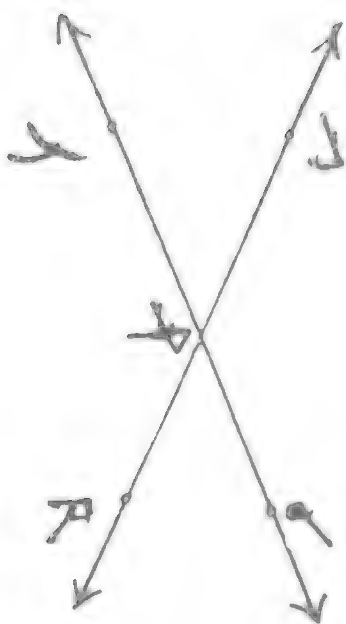
ܙܘܝ̈ܬܐ ܕܩܒܠܐ ܒܪܟܬܐ ܝܢܐ

(٤)





(٦)



ܙܘܝܬ̈ܐ ܕܩܢܝܐ ܒܕܘܟܬܐ ܝܢܐ

- -

- -

... ܒܚܘܪܐ ܗܘܝܬ ܒܗܕ ܕܫܚܠܦܐ (٤) ، (٥) ؟ ܡܕܘܪ ܠܡܫܬܘܕܥܘܬܘܟ ܥܡ ܚܒܪ̈ܐ.

ܚܘܕܪܐ (٣)

... ܚܘܕܪܐ ܚܒܝܒܐ، ܡܥܠܝܢ ܠܡܫܟܚܬܐ ܕܕܡܝܘܬܐ ܕܟܠ ܚܕ ܙܘܝܬܐ ܕܩܢܝܐ ܒܕܘܟܬܐ.

... ܚܘܪܐ ܗܘܝܬ؟

ܗܐ ܟܕ ܡܦܩܬ ܡܢܟ ܐܢܬ ܘܡܫܬܘܕܥܘܬܘܟ ܟܕ ܗܘܝܐ ܠܟ ܠܐܗܐ ܦܘܫܩܐ ܕܐܬܝܐ:

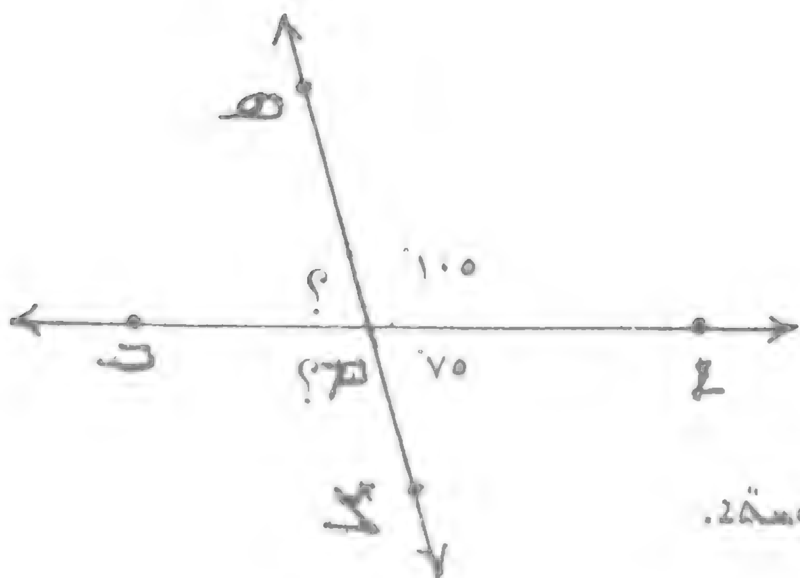
ܙܘܝܬ̈ܐ ܕܩܢܝܐ ܒܕܘܟܬܐ ܝܢܐ ܒܕܡܝܘܬܐ

ܥܠܘܦܐ

... ܡܚܫܒܬܐ ܕܡܫܬܐ ܡܢ ܕܡܝܘܬܐ ܕܟܠ ܚܕ ܙܘܝܬܐ ܕܗܘܝܐ ܒܕܘܟܬܐ ؟ ܟܠ ܡܫܟܚܬܐ

... ܫܟܚܬܐ.

... ܬܐ:



... ܐ ܒ ، ܗ ܙ ܡܬܚܒܟܐ ܚܕܐ ܥܡ ܡ.

... ܚܕ ܘܚܕܢܐ ܡܢ ܙܘܝܬ̈ܐ ܕܩܢܝܐ ܒܕܘܟܬܐ ܝܢܐ:

... $\widehat{\text{ܡ ܗ}}$ ، $\widehat{\text{ܒ ܡ ܙ}}$ ، $\widehat{\text{ܐ ܡ ܙ}}$ ، $\widehat{\text{ܒ ܡ ܗ}}$.

... ܚܫܒܬܐ ܕܟܠ ܚܕ ܙܘܝܬܐ ܕܩܢܝܐ ܒܕܘܟܬܐ ܝܢܐ ܒܕܡܝܘܬܐ.

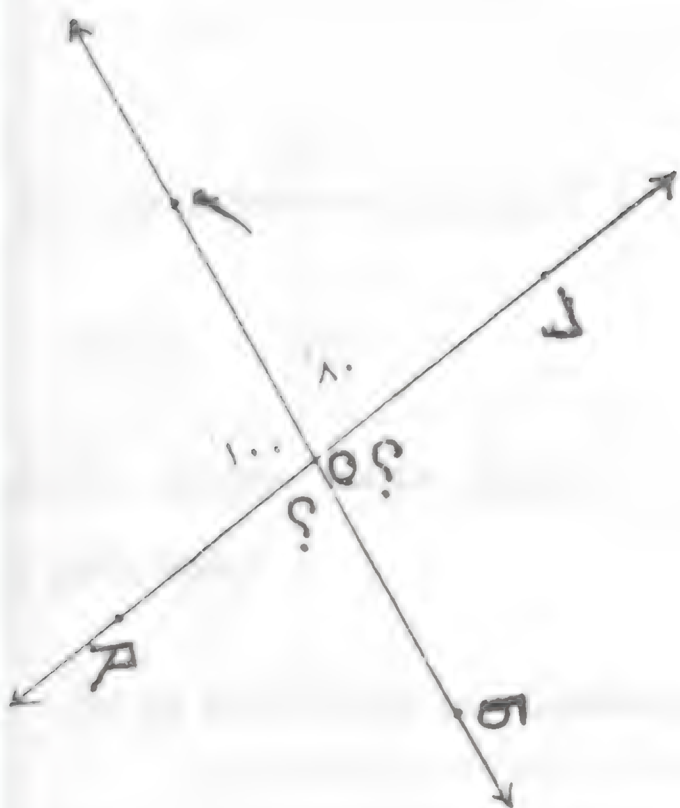
ܒܗܘܕܐ :

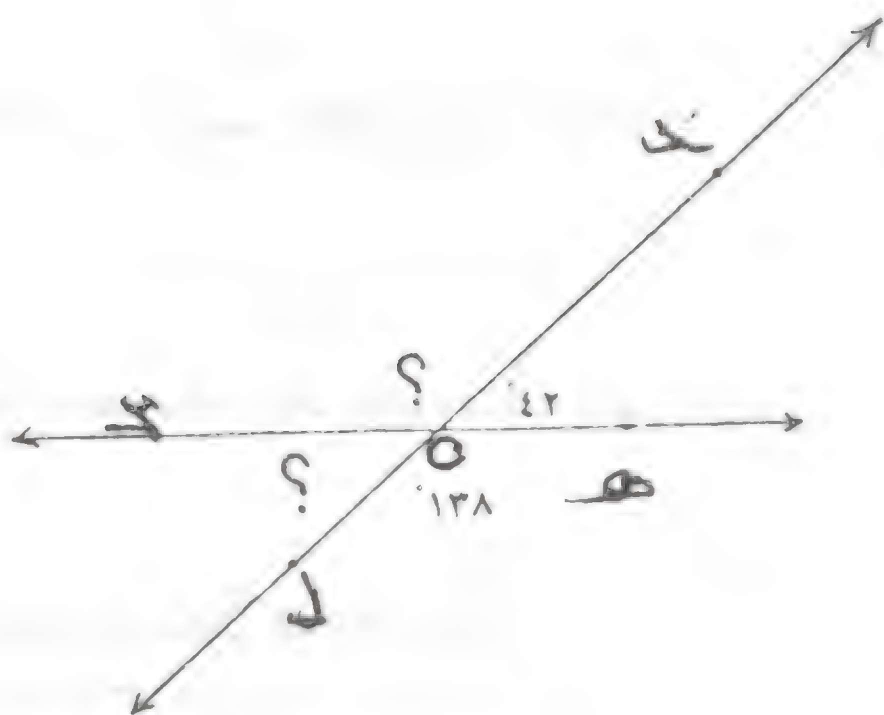
ܡܫܘܚܬܐ ܒ ܛ̂ ܙ = ܡܫܘܚܬܐ ܐ ܛ̂ ܗ = °١٠٥

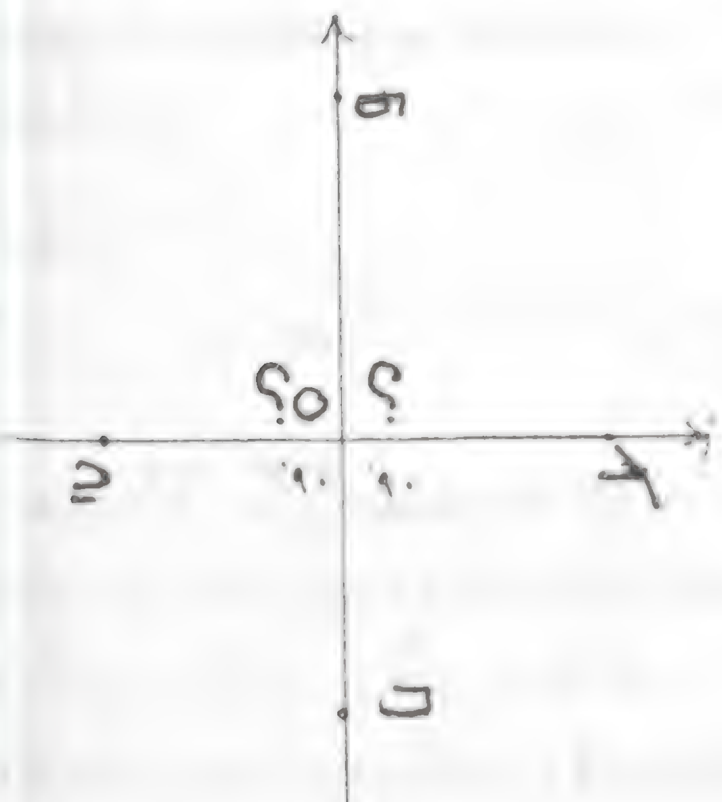
، ܡܫܘܚܬܐ ܒ ܛ̂ ܗ = ܡܫܘܚܬܐ ܐ ܛ̂ ܙ = °٧٥

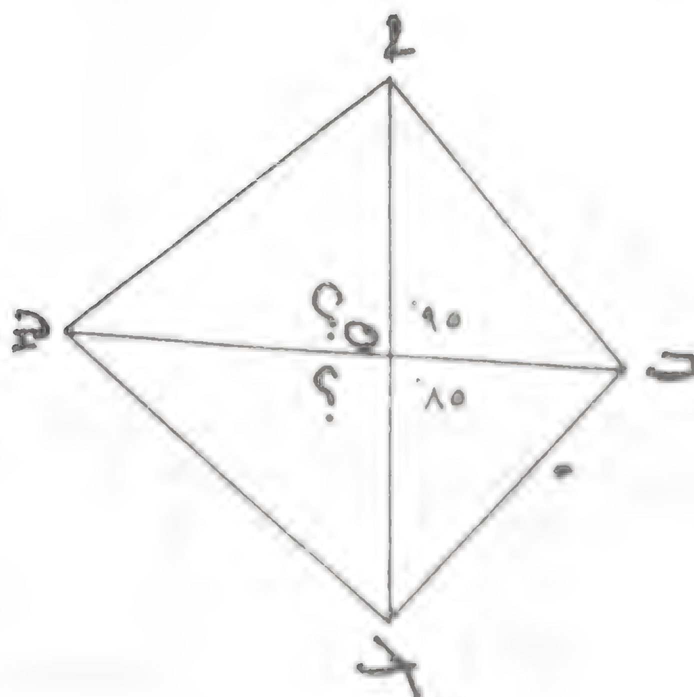
ܕܘܓܡܐ (٦ - ٤)

ܚܫܘܒ ܟܠ ܡܫܘܚܬܐ ܡܫܘܚܬܐ ܕܟܠ ܙܘܝܬܐ ܡܫܘܚܬܐ ܒܨܘܪܬܐ ؟ ܕܟܠ ܡܫܠܡܬܐ ܕܡܫܠܡܬܐ.



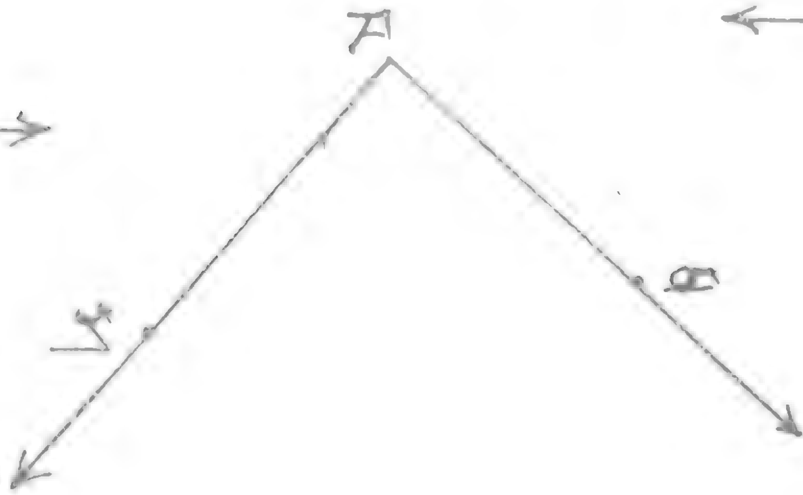






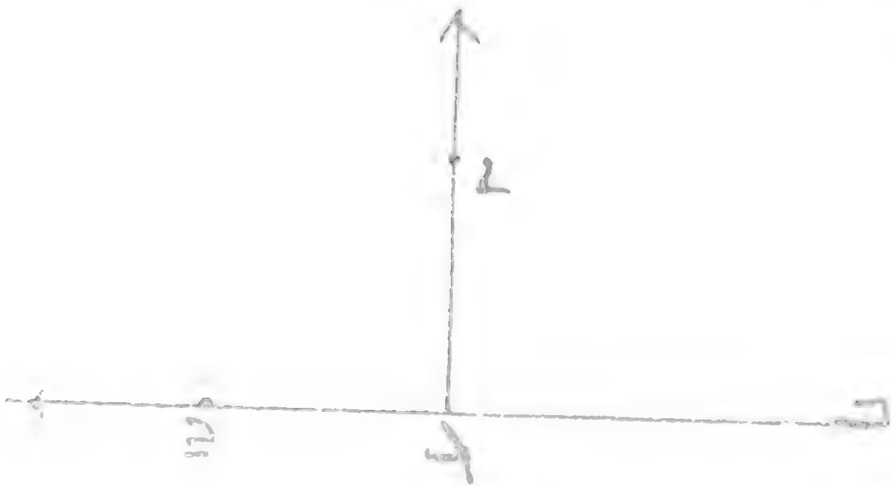
٦ ـ ٥ ܙܘܝܬܐ ܕܐܬܩܢܝܐ

ܐܝܢ ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܒ $\hat{ܐ}$ ܓ ܒܨܘܪ̈ܬܐ (٦ ـ ٩)، ܡܢ ܟܡܐ ܗܘܝܐ؟



ܨܘܪܬܐ (٦ ـ ٩ܓ) — ܨܘܪܬܐ (٦ ـ ٩ܒ) — ܨܘܪܬܐ (٦ ـ ٩ܐ)

ܒܟܠܗܝܢ ܗܠܝܢ ܨܘܪ̈ܬܐ ܕܙܘܝ̈ܬܐ ܒ ܐ ܘܡܢ ܠܗ ܥܠ ܙܘܝܬܐ ܐ ܓ ܐܝܟ ܕܡܫܘܚܬܐ ܕܙܘܝܬܐ ܒ $\hat{ܐ}$ ܓ = ٩٠°



ܨܘܪܬܐ (٦ ـ ١٠)

ܘܟܠܗܝܢ ܙܘܝܬܐ ܗܕܐ ܙܘܝܬܐ ܟܠ

ܡܫܘܚܬܐ ܒܨܘܪܬܐ ܕܟܘܠܐ،

ܐܝܟ ܕܒܨܘܪܬܐ (٦ ـ ١٠) ܐܡܪܐ:

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܐ $\hat{ܠ}$ ܕ = ٩٠°

= ܡܫܘܚܬܐ ܐ $\hat{ܠ}$ ܒ

ܘܟܠܗܝܢ ܕܙܘܝܬܐ ܙܘܝܬܐ ܐܚܪܬܐ

ܐܝܟ ܒܨܘܪܬܐ (٦ ـ ١١)، ܐܡܪܐ

ܕܡܫܘܚܬܐ ܕܙܘܝܬܐ

ܕ $\hat{ܗ}$ ܓ = ܡܫܘܚܬܐ ܗ $\hat{ܗ}$ ܓ = ٩٠°



ܨܘܪܬܐ (٦ ـ ١١)

ܘܦܠܛܐ ܕܪܫܡܢ ܗܕܐ ܩܘܝܐ ܐܒ ، ܓܕ
ܡܬܚܒܩܝܢ ܒܢܘܩܙܐ ܐܝܟ ܘ ، ܐܝܟܐ ܕܟܪܘܢܝܬܐ
ܕܟܠ ܙܘܝܬܐ ܡܢ ܐܪܒܥ ܙܘܝܬܐ
ܦܠܚܝܬܐ ٩٠°، ܨܘܪܬܐ (٦ - ١٢).

ܨܘܪܬܐ (٦ - ١٢)

ܗܕܐ ܚܙܝܢ ܕܐܦܘܪܫܐ ܒܝܢ ܙܘܝܬܐ ܕܗܕܐ
ܩܘܝܐ ܗܩܒܝܐ ܒܡܫܒܚܬܐ ܕܟܠ ܚܕ ܡܢܝܗܘܢ
ܦܣܝܩ ܗܩܒܝܐ، ܨܘܪܬܐ (٦ - ١٣) ܘܟܕ
ܡܨܠܝܢ ܚܕܐ ⌐ ܘ ⌐ ܐܬܪܐ ܚܕ ܙܘܝܬܐ
ܐܝܟ ܒܨܘܪܬܐ

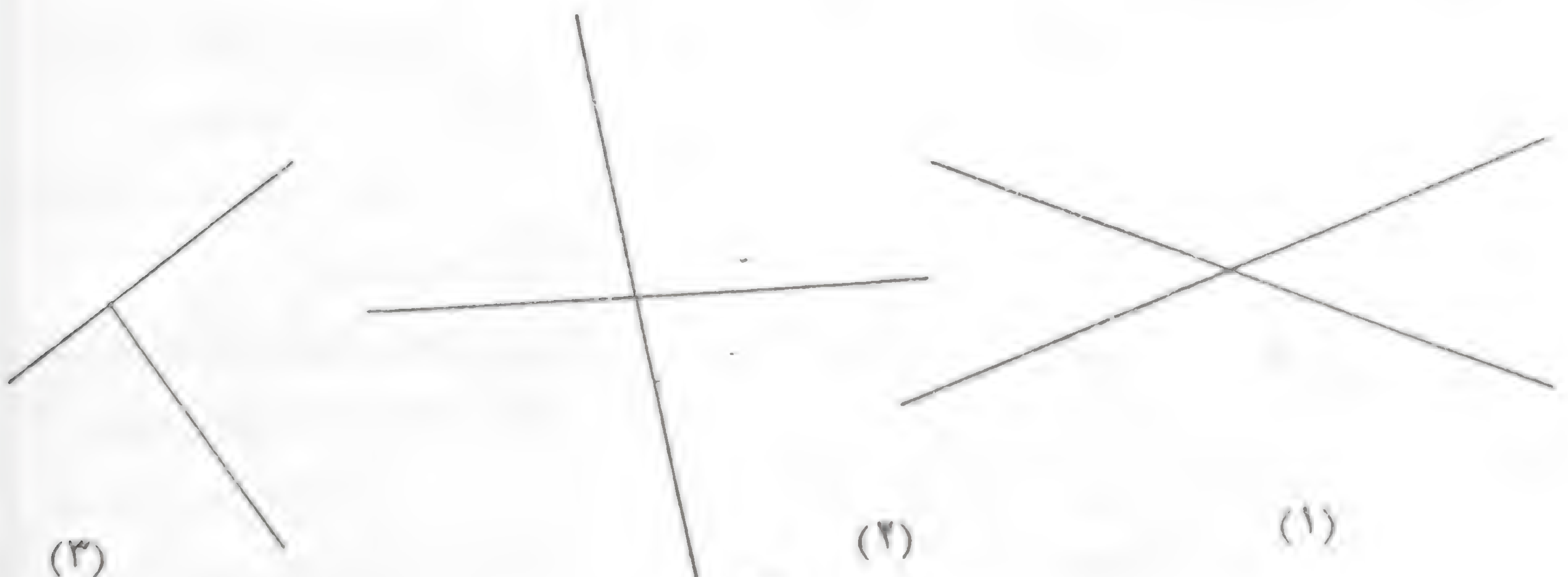
ܨܘܪܬܐ (٦ - ١٣ ܐ)

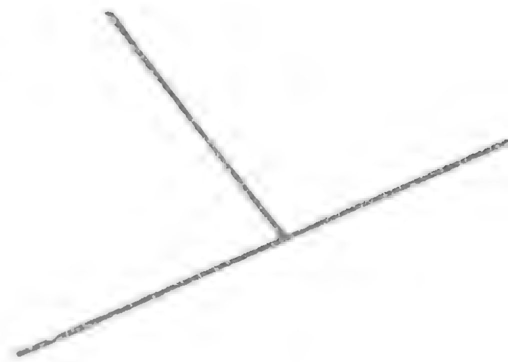
ܨܘܪܬܐ (٦ - ١٣ ܒ)

ܨܘܪܬܐ (٦ - ١٣ ܓ)

ܕܘܪܫܐ (٦ - ٥)

١ ܚܘܝ ܒܢܘܠܝܬܐ ܠܙܘܝܬܐ ܕܩܛܝܢ ܗܩܒܝܐ ܘܚܝܩܐ (ܦܝܫ ܚܕܐ ܕܙܘܝܬܐ)





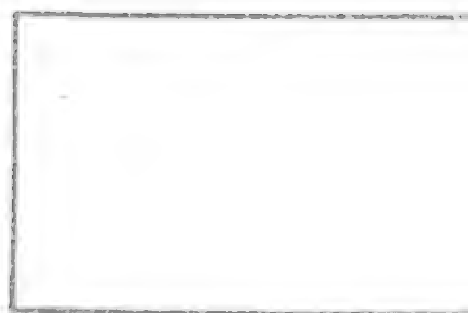
(٤)



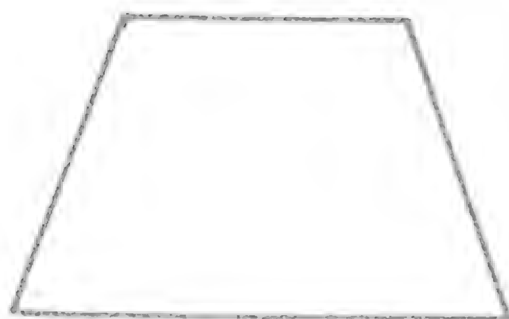
(٥)



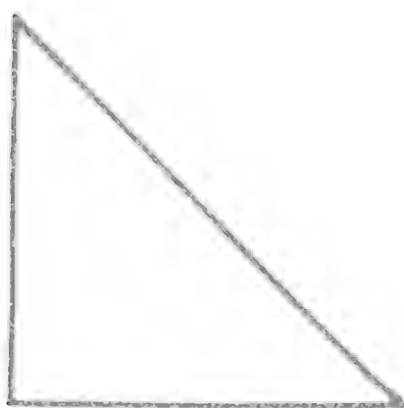
(٦)



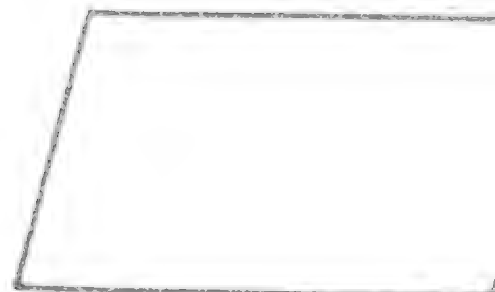
(٧)



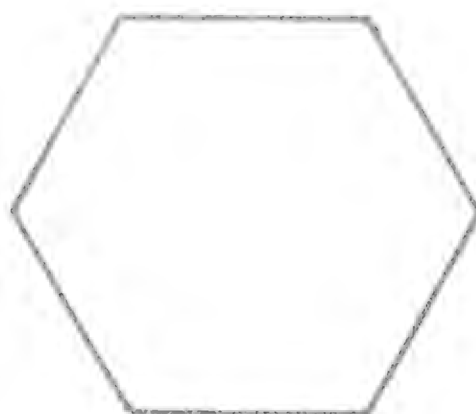
(٨)



(٩)



(١٠)



(١١)



(١٢)

ܦܫܘܛܐ ܕܥܡܘܕܐ ܥܠ ܗܕܝܪܐ ܡܢ ܢܘܩܙܐ ܡܬܝܗܒܬܐ ܠܗ

ܐܒ ܗܕܝܪܐ ܝܕܝܥܐ ، ܗ ܡܬܝܗܒܬܐ ܠܐ ܐܒ.

ܘܡܠܒܥܬܐ ܥܠܗ ܕܥܒܕܐ ܕܡܚܠܦܐ ܗܕܝܪܐ ܘܡܢܩܐ ܥܠ ܐܒ ܠܓܘ ܢܘܩܙܐ ܗ.

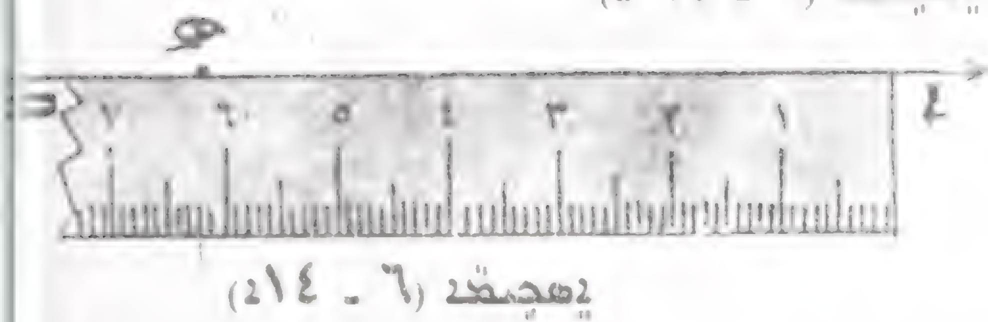
ܡܬܢܐ :



ܟܘܢܫܐ ܘܡܦܠܚܬܐ ܙܘܝܬܐ ܘܡܢܩܬܐ.

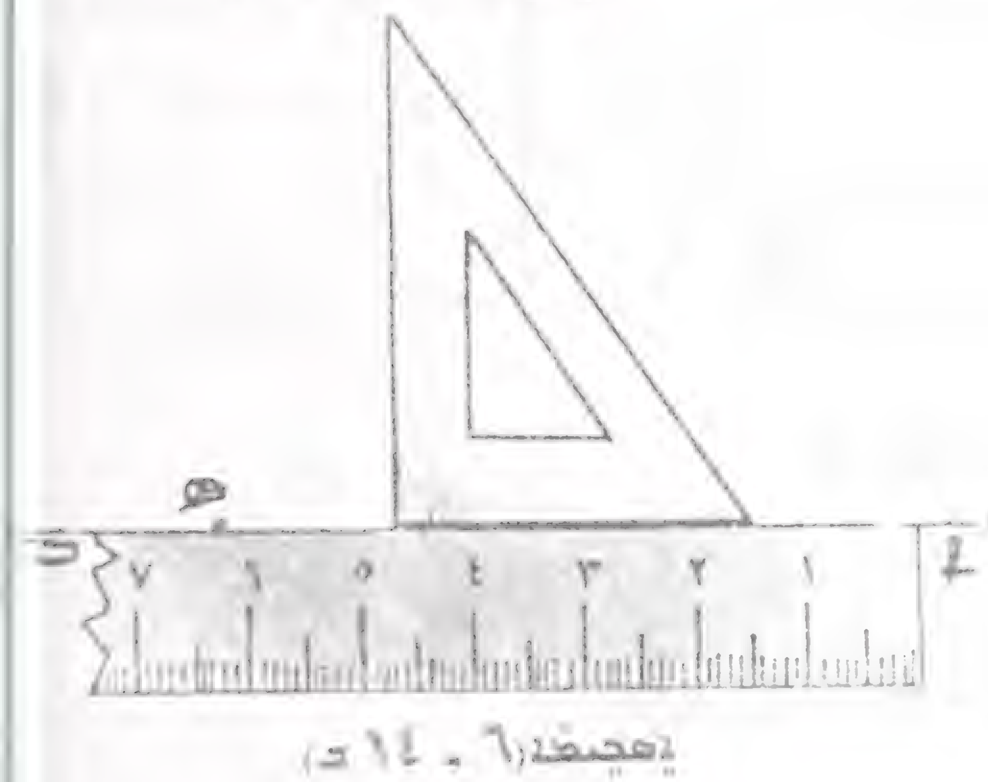
ܦܣܘܩܝܬܐ ܕܦܘܠܚܢܐ :

١ ـ ܐܬܚܝ ܡܣܩܬܐ ܕܟܘܢܫܐ ܥܠ ܗܕܝܪܐ ܐ ܒ ، ܨܘܪܬܐ (٦ ـ ١٤ ܐ)



ܨܘܪܬܐ (٦ ـ ١٤ ܐ)

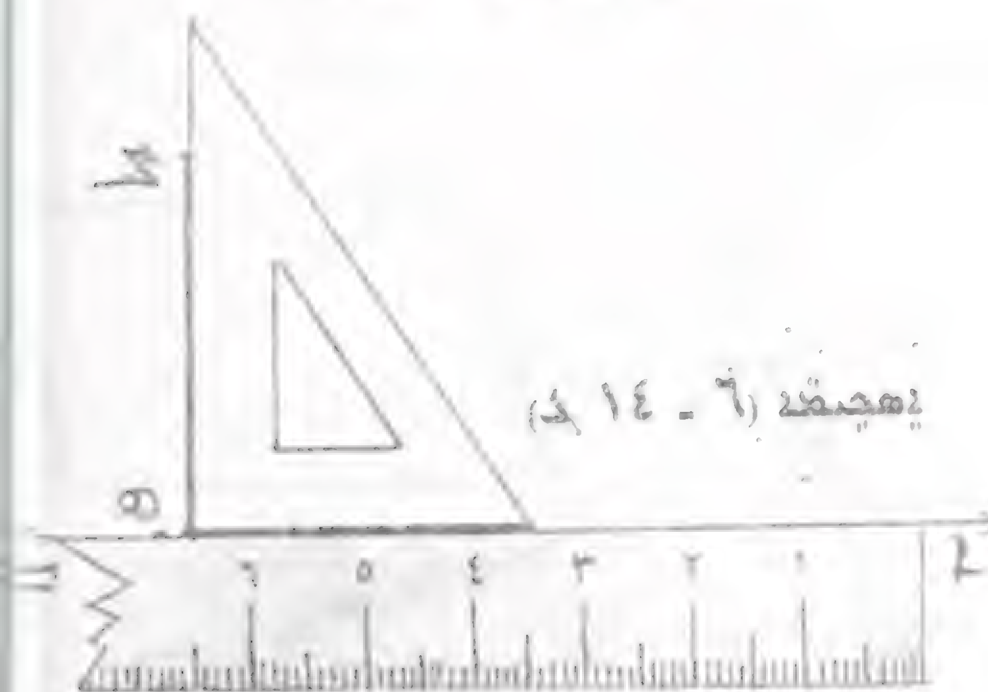
٢ ـ ܐܬܚܝ ܚܕ ܓܠܟܐ ܘܡܢܩܐ ܟܦܠܚܬܐ
ܥܠ ܡܣܩܬܐ ܕܟܘܢܫܐ،
ܨܘܪܬܐ (٦ ـ ١٤ ܒ)



ܨܘܪܬܐ(٦ ـ ١٤ ܒ)

٣ ـ ܫܚܡ ܠܟܘܢܫܐ ܘܡܓܘܕܝ ܠܡܦܠܚܬܐ
ܘܡܢܩܐ ܗܘܠ ܕܡܛܝܐ ܢܘܩܙܐ ܗ ܕܩܐ
ܕܙܘܝܬܐ ܘܡܢܩܬܐ ܟܦܠܚܬܐ .
ـ ܨܘܪܬܐ (٦ ـ ١٤ ܓ)

٤ ـ ܫܚܡ ܡܦܠܚܬܐ ... ܘܐܬܚܝ
ܡܚܠܦܐ ܗܕܝܪܐ ܗ ܙ ܕܡܛܝܐ ܡܣܩܬܐ
ܕܡܦܠܚܬܐ ، ܨܘܪܬܐ (٦ ـ ١٤ ܓ)



ܨܘܪܬܐ (٦ ـ ١٤ ܓ)

ܚܘܕܪܐ (١)

...ܡܫܘܚ ܡܢܬܐ ܗܕܡܐ ܘܪܫܘܡ ܥܠ ܗܠ

...ܕܐܙܠ ܠܘܬ ܢܩܘܕܬܐ ܡܬܚܫܚܬܐ:

ܐ

...ܣܪܛܐ ܕܥܒܘܪܐ ܥܠ ܗܕܡܐ

...ܢܩܘܕܬܐ ܠܐ ܡܬܚܒܫܬܐ ܠܗ:

...ܗܕܡܐ ܢܦܝܠܐ، ܗ ܠܐ ܡܬܚܒܫܬܐ ܠ ܐ ܒ

...ܠܝܚܬܐ ܗܠܝܢ ܡܫܘܚܬܐ ܕܥܒܘܪܐ

...ܢܩܘܕܬܐ ܗ ܥܠ ܗܕܡܐ ܐ ܒ.

...ܬܐ ܘܣܠܩܬܐ ܘܣܝܡܐ

...ܠܝܬܐ ܕܡܠܫܬܐ:

...ܥܡ ܣܛܪܐ ܕܥܒܘܪܐ ܥܠ ܗܕܡܐ

...ܥܡ ܥܡ ܚܕ ܦܠܓܐ ܘܣܝܡܐ

...ܠܬܐ ܥܠ ܣܛܪܐ ܕܥܒܘܪܐ

...ܨܘܪܬܐ (٦ ـ ١٥ ܐ، ܒ)

...ܢܬܩܢ ܠܥܒܘܪܐ ܘܢܦܠܘܓ ܠܡܬܠܬܐ

...ܢܩܘܕܬܐ ܗ ܦܠܓ ܕܥܒܘܪܐ

...ܗ ܦܠܓܐ ܕܣܝܡܐ ܗܕܡܐ

...ܠܬܐ ܨܘܪܬܐ (٦ ـ ١٥ ܓ)

ܨܘܪܬܐ (٦ ـ ١٥ ܐ)

ܨܘܪܬܐ (٦ ـ ١٥ ܒ)

ܨܘܪܬܐ (٦ ـ ١٥ ܓ)

٣ - ܦܫܘܛ ܡܫܘܚܬܐ ܘܟܬܘܒ ܦܣܩܬܐ ܕܣܪܛܐ ܗ̄ܙ.

ܬܡܪܝܢܐ (٢)

ܟܬܘܒ ܦܣܩܬܐ ܕܣܪܛܐ ܕ̄ܗ ܩܝܡܐ ܥܠ ܟܠ ܚܕ ܣܪܛܐ :



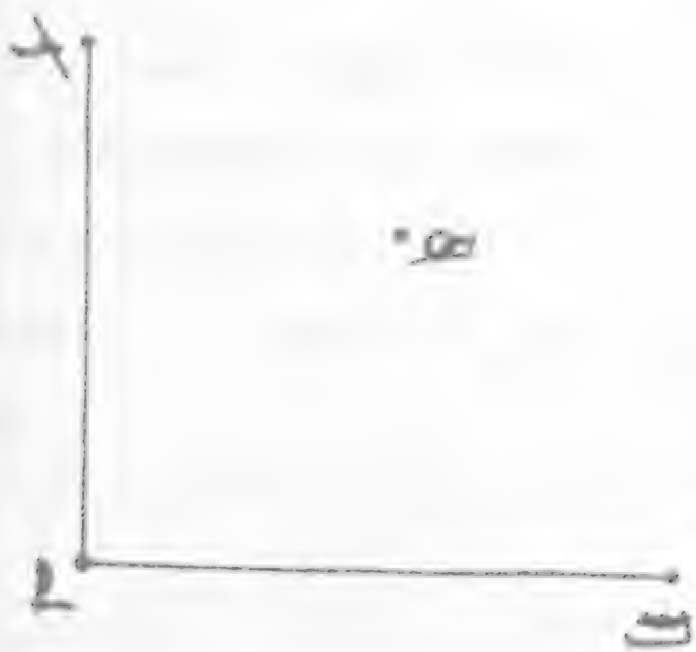
ܬܡܪܝܢܐ (٦ - ܘܒ)

١ - ܟܬܘܒ ܦܣܩܬܐ ܕܣܪܛܐ ܐ̄ܒ ܕܐܘܪܟܗ ٦ ܣܡ. ܢܩܘܫ ܢܘܩܙܬܐ ܓ ܥܠ ܡܨܥܝܬܐ ܥܠ ܐ̄ܒ ܕܗܘܐ
ܕܗܘܝܐ ܐܘܪܟܐ ܕ ܐ̄ܓ ٤ ܣܡ. ܡܫܘܚ ܡܢ ܢܘܩܙܬܐ ܓ ܡܫܘܚܬܐ ܥܠ ܐ̄ܒ.

٢ - ܟܬܘܒ ܦܣܩܬܐ ܕܣܪܛܐ ܗ̄ܙ ܕܐܘܪܟܗ ٣ ܣܡ. ܟܬܘܒ ܡܢ ܙ ܦܣܩܬܐ ܕܣܪܛܐ ܙ̄ܚ ܕܩܝܡܐ
ܥܠ ܗ̄ܙ ܘܐܝܟܐ ܕܗܘܝܐ ܐܘܪܟܐ ܙ̄ܚ ٤ ܣܡ. ܟܬܘܒ ܦܣܩܬܐ ܕܣܪܛܐ ܗ̄ܚ ܘܐܫܟܚ ܐܘܪܟܗ.

٣ - ܢܘܩܙܬܐ ܓ ܡܨܥܝܬܐ ܠܣܪܛܐ ܐ ܒ ⟷ , ܗ
ܢܘܩܙܬܐ ܐܚܪܬܐ ܠܐ ܡܨܥܝܬܐ ܠܗ, ܟܬܘܒ
ܡܢ ܗ ܣܪܛܐ ܩܝܡܐ ܥܠ ܐ ܒ ⟷ , ܘܡ ܟܬܘܒ
ܡܢ ܓ ܘܣܪܛܐ ܩܝܡܐ ܥܠ ܐ ܒ ⟷.

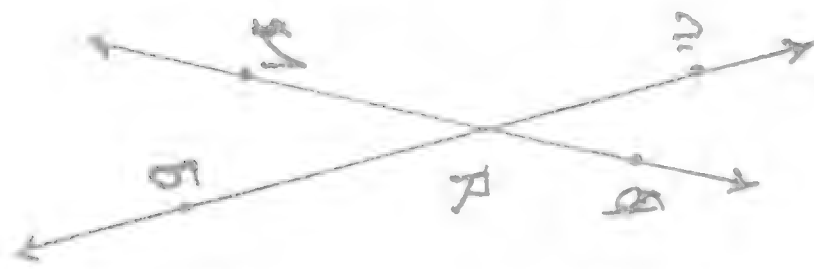
٤ - ܒܡܫܚܬܐ ܢܩܝܦܐ, ܟܬܘܒ ܡܫܘܚܬܐ ܥܠ
ܟܠ ܡܢ ܐ̄ܒ , ܐ̄ܓ ܡܢ ܢܘܩܙܬܐ ܗ.



(٦-٦) ܡܫܘܚܬܐ ܕܬܪܝܢ ܣܪ̈ܛܐ

ܐܝܬ ܕܘܟ̈ܝܬܐ ܕܬܪܝܢ ܣܪ̈ܛܐ ܦܫܝܛ̈ܐ ܚܕ ܥܡ ܚܕ

١ - ܡܬܠܩܛܝܢ ܣܪ̈ܛܐ ܦܫܝܛ̈ܐ ، ܘܦܫܝܛ̈ܐ ܢܩܘܕܬܐ ܡܫܘܬܦܬܐ ܠܟܠ ܚܕ ܡܢܗܘܢ . ܨܘܪܬܐ (٦ - ١٦ ܐ) ، ܘܨܘܪܬܐ (٦ - ١٦ ܒ) :

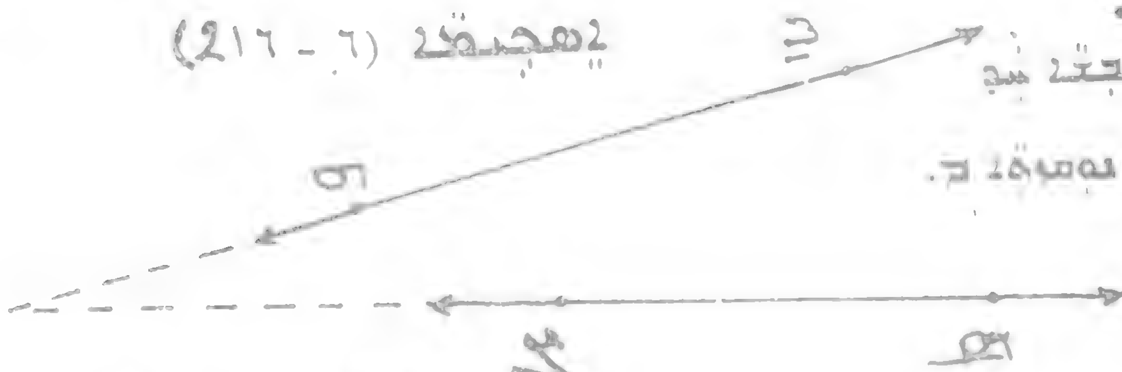


ܗ ܡܫܘܬܦܬܐ ܠ $\overleftrightarrow{ܐܒ}$

ܗ ܡܫܘܬܦܬܐ ܠ $\overleftrightarrow{ܓܕ}$ ،

$\overleftrightarrow{ܐܒ} \cap \overleftrightarrow{ܓܕ}$ = ܗ

ܨܘܪܬܐ (٦ - ١٦ ܐ)



ܐܝܟ ܕܚܙܝܢܢ ܠܢܩܘܕܬܐ ܒ.

ܨܘܪܬܐ (٦ - ١٦ ܒ)

٢ - ܠܐ ܡܬܠܩܛܝܢ ܣܪ̈ܛܐ ܦܫܝܛ̈ܐ ،

ܐܝܟ ܕܒܨܘܪܬܐ (٦ - ١٦ ܓ) ، ܘܗܘܝܐ :



$\overleftrightarrow{ܐܒ} \cap \overleftrightarrow{ܓܕ}$ = ܣܘܟܐ ܣܦܝܩܐ.



ܨܘܪܬܐ (٦ - ١٦ ܓ)

ܦܫܛ̈ܐ ܐܡܝܪܐ ܠܬܪܝܢ ܣܪ̈ܛܐ ܡܫܘܬܦ̈ܐ ، ܡܬܩܪܝܢ ܗܘܘ ܣܘܟܐ ܣܦܝܩܐ

ܘܐܡܪܝܢ ܠܬܪܝܢ ܡܬܠܝ̈ܐ ܣܪ̈ܛܐ ܒܦܫܝܛܘܬܐ ، ܗܘܘ ܬܪܝܢ ܡܬܠܝ̈ܐ ܣܪ̈ܛܐ ܦܫܝ̈ܛܐ.

ܘܒ ܐܡܪܝܢ ܠܐܣܬܥܡܠܐ ܕܡܫܘܚܬܐ ܕܦܫܝܛܘܬܐ // ، ܘܟܬܒܝܢ :

$\overleftrightarrow{ܐܒ}$ // $\overleftrightarrow{ܓܕ}$ ܠܡܐܡܪ ܕܦܫܝܛ̈ܐ ܗܘ $\overleftrightarrow{ܐܒ}$ ܡܫܘܚܬܢܝܐ ܥܡ ܣܪܛܐ ܓܕ.

ܡܢ ܦܘܪܫ̈ܢܐ ܕܡܫܘܚܬܐ

- ܡܬܠܝܐ ܕܣܪ̈ܛܐ ܕܦܫܝܛ̈ܐ ܡܬܠܝ̈ܐ ܣܪ̈ܛܐ ܡܫܘܚܬܐ

- ܡܫܘܚܬܐ ܕܟܘܪ̈ܐ ܒܐܪ̈ܥܐ ܘܡܫܘܚܬܐ ܕܐܪ̈ܥܐ ، ܐܝܟ ܕܒ ܡܫܘܚܬܐ ܕܦܫܝܛ̈ܐ ܘܡܬܠܝ̈ܐ)

- ܡܫܘܚܬܐ ܕܚܘܒܬܐ ܠܐ ܢܦܩ̈ܐ ܡܫܘܚܬܐ ܝܬܝܪܐ.

ܕܡܪܝ ܦܘܪܫ̈ܢܐ ܐܚܪ̈ܢܐ ܡܢ ܚܣܘܢܐ ܠܡܬܠܝ̈ܐ ܣܪ̈ܛܐ ܡܫܘܚܬܐ

ܬܡܪܝܢܐ (١)

ܣܝܡ ✓ ܠܩܘܒܠ ܣܪܛܐ ܡܫܘܘܝܐ







(١) (٢) (٣)

<u>ܪܫܡܬܐ ܕܣܪܛܐ ܡܫܘܘܝܐ ܥܡ ܣܪܛܐ ܝܕܝܥܐ</u>

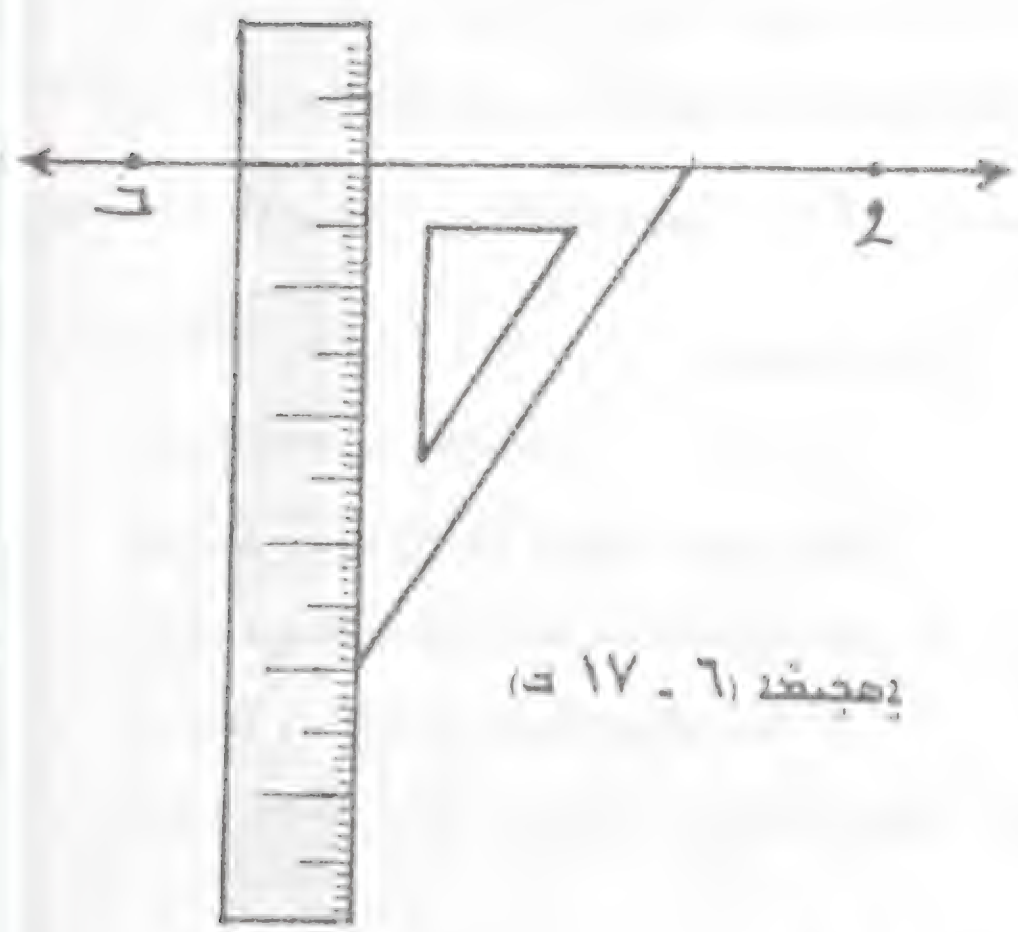


ܐ ܒ ܣܪܛܐ ܝܕܝܥܐ



ܘܡܠܦܢܘܬܐ ܗܝ ܕܪܫܡܬܐ ܕܣܪܛܐ ܐܚܪܢܐ ܡܫܘܘܝܐ ܠܗ.

ܐܕܫܐ : ܣܘܟܐ ܘܡܬܠܬܐ ܘܡܫܘܚܬܐ



ܨܘܪܬܐ (٦ ـ ١٧ ܐ)

ܨܘܪܬܐ (٦ ـ ١٧ ܒ)

ܦܘܪܫܢܐ ܕܦܘܠܚܢܐ .

١ ـ ܐܬܩܢ ܚܕ ܓܒܐ ܕܙܘܝܬܐ ܕܡܬܠܬܐ
ܥܠ ܣܪܛܐ ܐ ܒ

ـ ܨܘܪܬܐ (٦ ـ ١٧ ܐ)

٢ ـ ܣܡܘܟ ܣܘܟܐ ܕܡܫܘܚܬܐ ܠܓܒܐ

ܓܒܐ ܙܘܝܬܐ ܐܚܪܢܐ ـ

ܨܘܪܬܐ (٦ ـ ١٧ ܒ)

٣ ـ ܣܡܘܟ ܡܫܘܚܬܐ ܘܫܢܘܠ

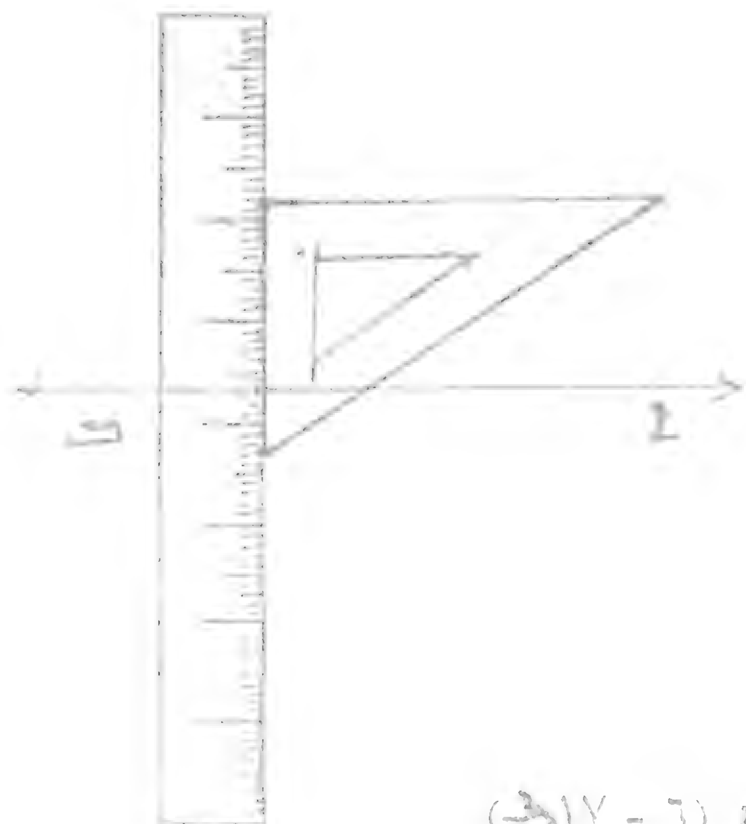
ܠܡܬܠܬܐ ܠܥܠ ܐܘ ܠܬܚܬ.

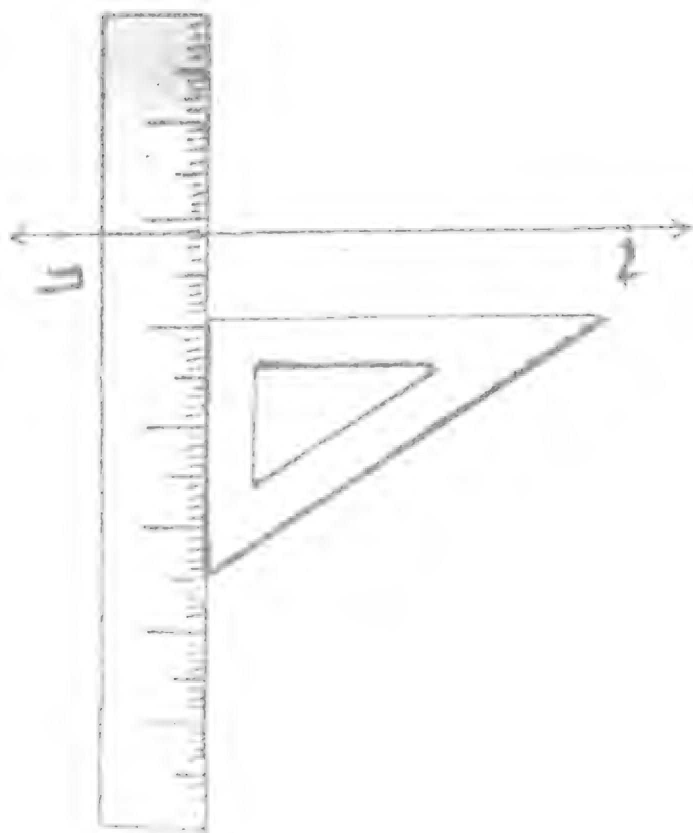
٤ ـ ܣܪܘܛ ܠܡܬܠܬܐ ܥܡ ܡܫܘܚܬܐ

ܘܪܫܘܡ ܠܣܪܛܐ ܡܫܘܘܝܐ

ܐܝܟ ܒܨܘܪܬܐ (٦ ـ ١٧ ܓ)

ܗܕܐ ܗܕܝܪܐ ܡܥܒܕܐ ܒܟܪܢܝܬܐ ܗܟܘ ܕܦܫܛܐ ܥܒܪܐ ܦܣܘܩܐ ܚܕ ܡܕܝܪܐ ܐ ܒ ؟





ܨܘܪܬܐ (٦ - ١٧ܒ)

ܡܘܬܒܐ (٢)

ܒܚܝ ܡܢܗܘܢ ܕܟܠ ܙܘܓܐ ܡܢ ܙܘܓܐ ܕܡܕܝܪܐ ܡܬܒܝܢܐ ܡܫܬܘܝܢܐ ܕܡܩܒܠܢ ܘܡܬܦܢܝܢ ܀



(١) (٢) (٣)

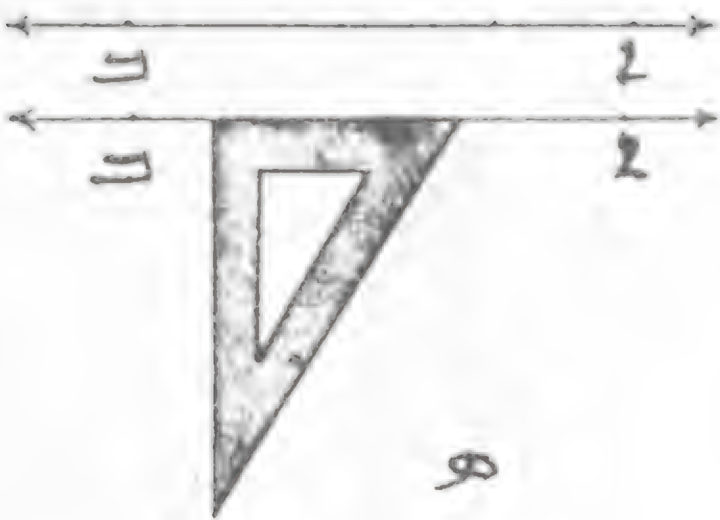
ܦܣܘܩܐ ܕܡܕܝܪܐ ܡܫܬܪܐ ܚܕ ܡܕܝܪܐ ܕܪܝܫܐ ܡܢ ܢܘܩܙܐ ܠܐ ܡܬܚܡܬܐ ܠܗ.



ܐ ܒ ܡܕܝܪܐ ܕܪܝܫܐ.

ܗ ܠܐ ܡܬܚܡܬܐ ܠ ܐ ܒ

ܘܡܬܚܡܬܐ ܠܗ ܦܣܘܩܐ ܕܡܕܝܪܐ ܚܕ ܡܢ ܢܘܩܙܝܗ ܗ . ܡܫܬܪܐ ܚܕ ܡܕܝܪܐ ܐ ܒ.



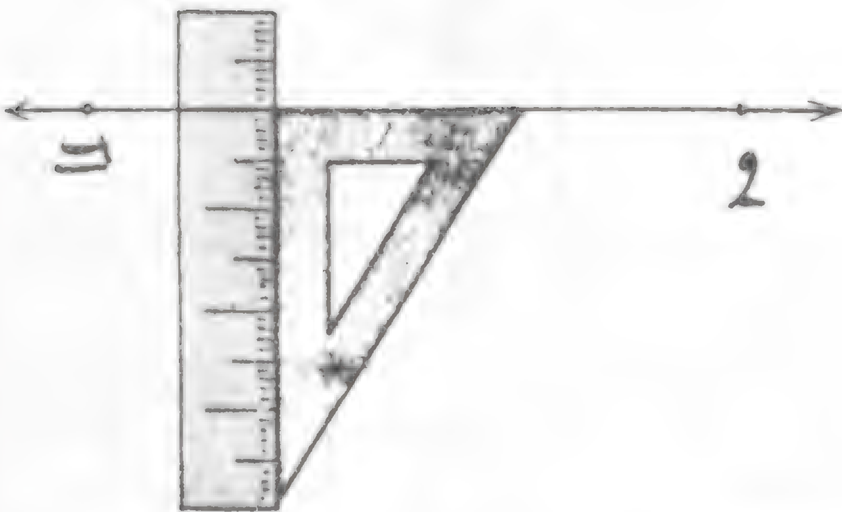
ܦܬܵܪܵܐ :

ܒܚܘܼܕܵܐ ܘܡܣܛܪܬܵܐ ܘܣܒܼܝܼܥܵܐ

ܦܫܘܼܛܵܐ ܕܓܘܼܢܝܵܐ :

ܐܢܵܫ ܦܫܘܼܛܵܐ ١ ، ٢

ܒܡܫܘܚܬܵܐ ܝܕܝܥܬܵܐ.



٣ ـ ܣܝܼܡ ܒܚܘܼܕܵܐ ܘܡܣܛܪܬܵܐ ܟܸܢܵܐ ܕܡܩܘܼܦܬܵܐ

(ܠܝܼܠܹܗ ܝܼܠܹܗ ܚܵܘܹܐ ܗ ܢܩܝܼܠܬܵܐ ܠܝܼܠܹܗ

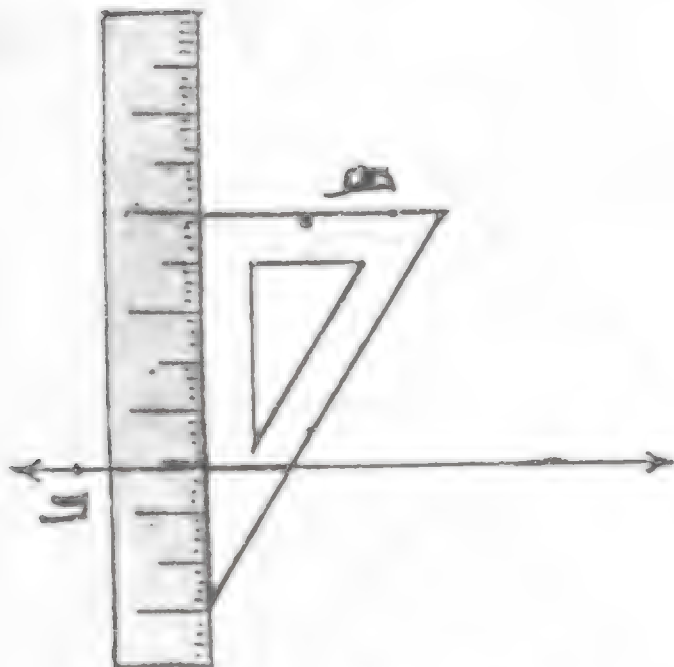
ܡܢ ܐܝܼܕܵܐ، ܘܠܐܢܵܫ ܝܼܠܹܗ ܗ ܚܵܘܹܐ

ܢܩܝܼܠܬܵܐ ܠܐܢܵܫ ܡܵܢܵܐ)

٤ ـ ܣܝܼܡ ܠܡܣܛܪܬܵܐ ܐܝܼܟ ܕܡܩܪܒܬܵܐ

ܢܩܘܼܦܬܵܐ ܗ ܦܠܓܵܐ ܕܡܣܛܪܬܵܐ ،

ܘܟܬܘܿܒ ܐܝܼܕܵܐ ܦܠܝܼܓܵܐ ـ



ܨܘܼܪܬܵܐ (٦ ـ ١٨)

ܐܵܢܵܐ ܚܕܵܐ ܚܘܼܪ ܕܡܟܝܼܢܵܬܵܐ

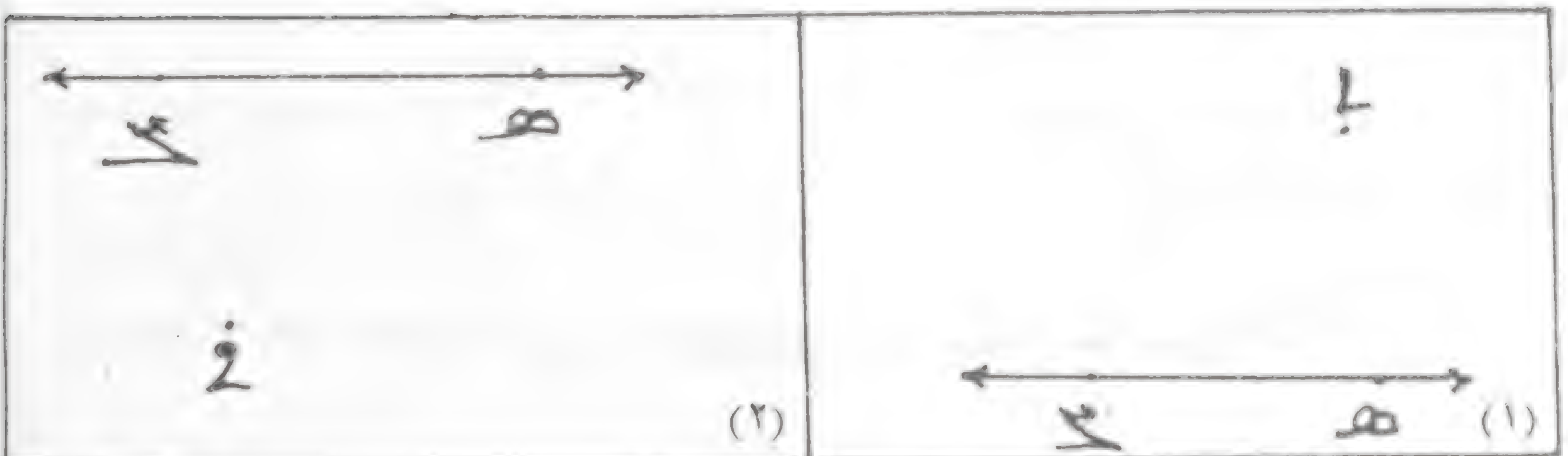
ܠܐܘ ܟܬܒܬܵܐ ܕܐܝܼܕܵܐ ܐܚܪܬܵܐ

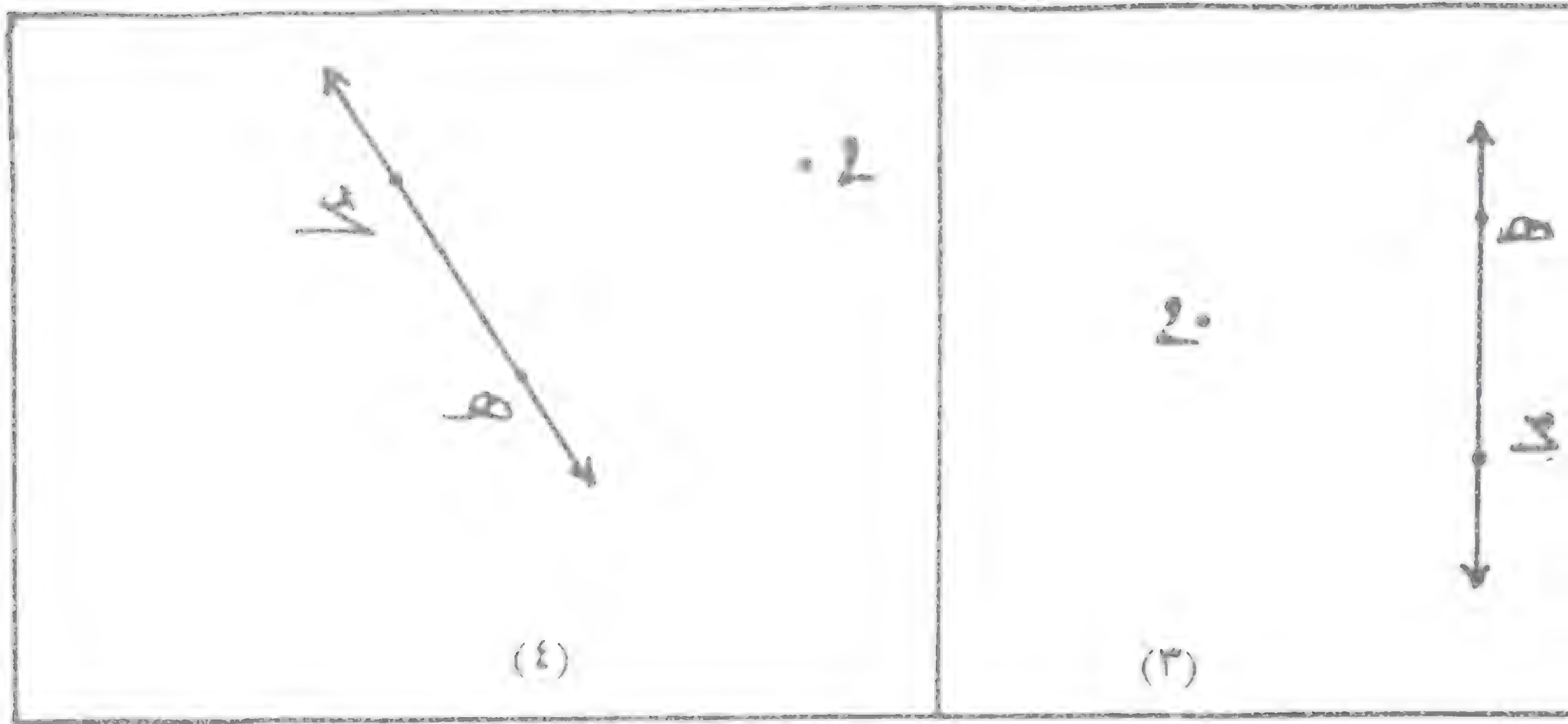
ܦܠܘܿܓ $\overleftrightarrow{ܐܒ}$ ܘܡܛܝܼܒ ܢܩܘܼܦܬܵܐ ܗ ؟

ܨܘܼܪܬܵܐ (٦ - ١٨)

ܕܘܼܪܫܵܐ (٦ - ٦)

١ ـ ܟܬܘܿܒ ܡܢ ܐ ܐܝܼܕܵܐ ܦܠܘܿܓ $\overleftrightarrow{ܗܕ}$ ܒܟܠ ܚܕ ܕܵܗܵܐ :





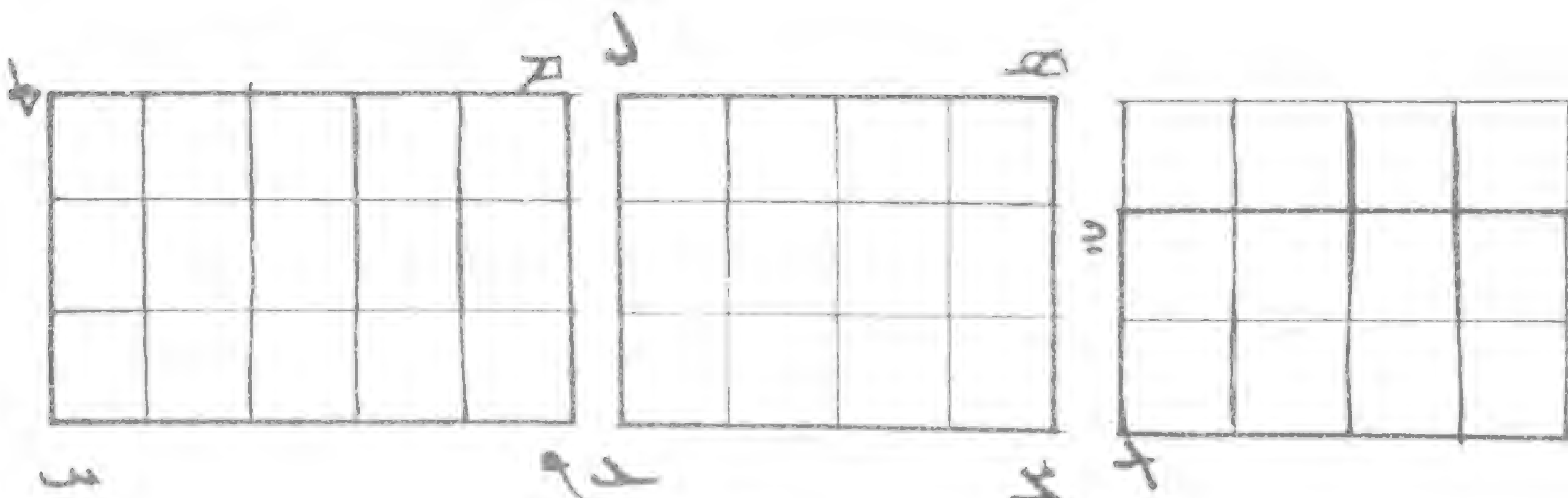
- ܠ ܟܐ ܡܫܘܚܬܐ ܠܦܣܘܩܐ ܐ ܒ. ܦܣܘܩ ܠ ܕܡܫܘܚܬܗ ܟܡ ܐ ܒ، ܘܦܣܘܩ ܡܫܘܚܬܐ ܠ ܗ

ܘܡܢܝܢܐ ܟܠ ܐ ܒ.

٦ - ٧ ܡܫܘܚܬܐ ܘܡܦܪܫܬܐ

... ܡܢ ܕܪܫܘܡ̈ܐ ܟܝܢܝܐ ܕܡܫܘܚܬܐ ܐܝܟ ܐܪܒܥܐ ܦܨܐ ܘܐܪܒܥܐ ܠܟܠܗ ܚܫܒ ܐܪܒܥܐ

... ܘܡܢܝܢܐ. ܚܙܝ ܒܨܘܪܬܐ (٦ - ١٩) ܘܫܘܐ :



ܨܘܪܬܐ (٦ - ١٩)

ܦܨܐ ܕܡܫܘܚܬܐ ܗ̈ܝ :





ܠܟܠܗ ܕܡܫܘܚܬܐ ܗ̈ܝ :

ܡܢܘܬܐ ܕܣܪ̈ܛܐ ܕܟܠ ܡܪܒܥܐ ܫܠ ܦܬܚܐ . ܡܐ ܡܢܝܢܗ ܐܝܬܘ ؟

ܡܢܝܢ ܟܠ ܙܘܝܬܐ ܡܢ ܙܘܝ̈ܬܐ ܕܟܠ ܡܪܒܥܐ ܡܫܘܚܬܐ ܫܘܝܘܬܐ . ܡܐ ܡܢܝܢܗ ܐܝܬܘ ؟

ܐܝܟ ܡܫܘܚܬܐ ܕܟܠ ܚܕ ܡܢ ܣܛܪ̈ܐ ܐܪ̈ܒܥܐ ܕܟܠ ܡܪܒܥܐ (ܡܬܩܪܐ ܚܘܫܒܐ ܘܡܫܘܚܬܐ ܕܦܬܝܐ)

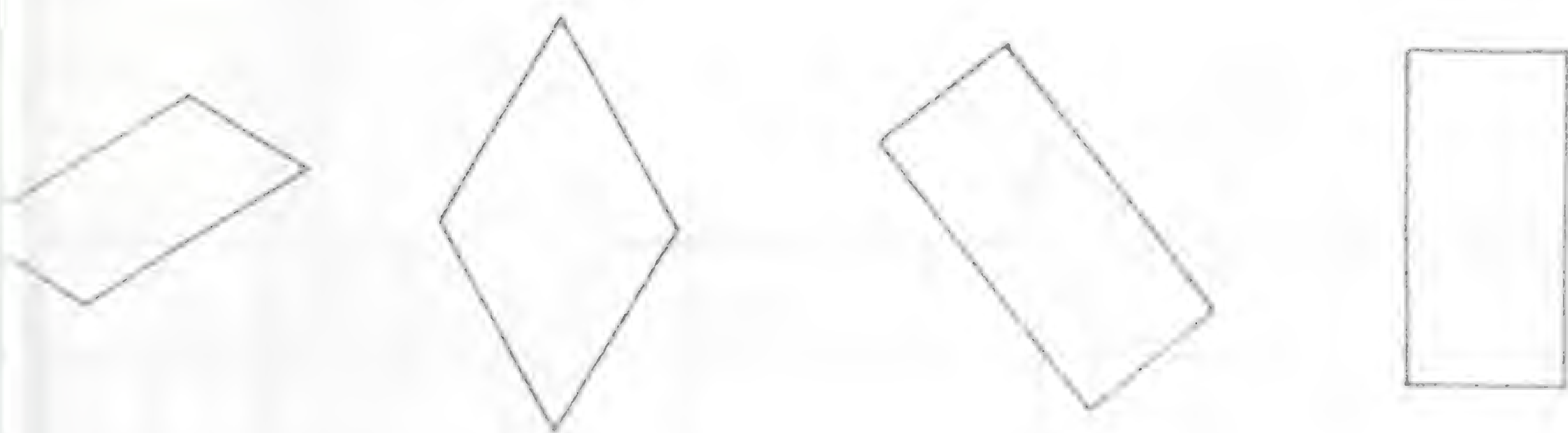
ܡܐ ܡܢܝܢܗ ܐܝܬܘ ؟

<u>ܚܘܫܒܐ :</u>

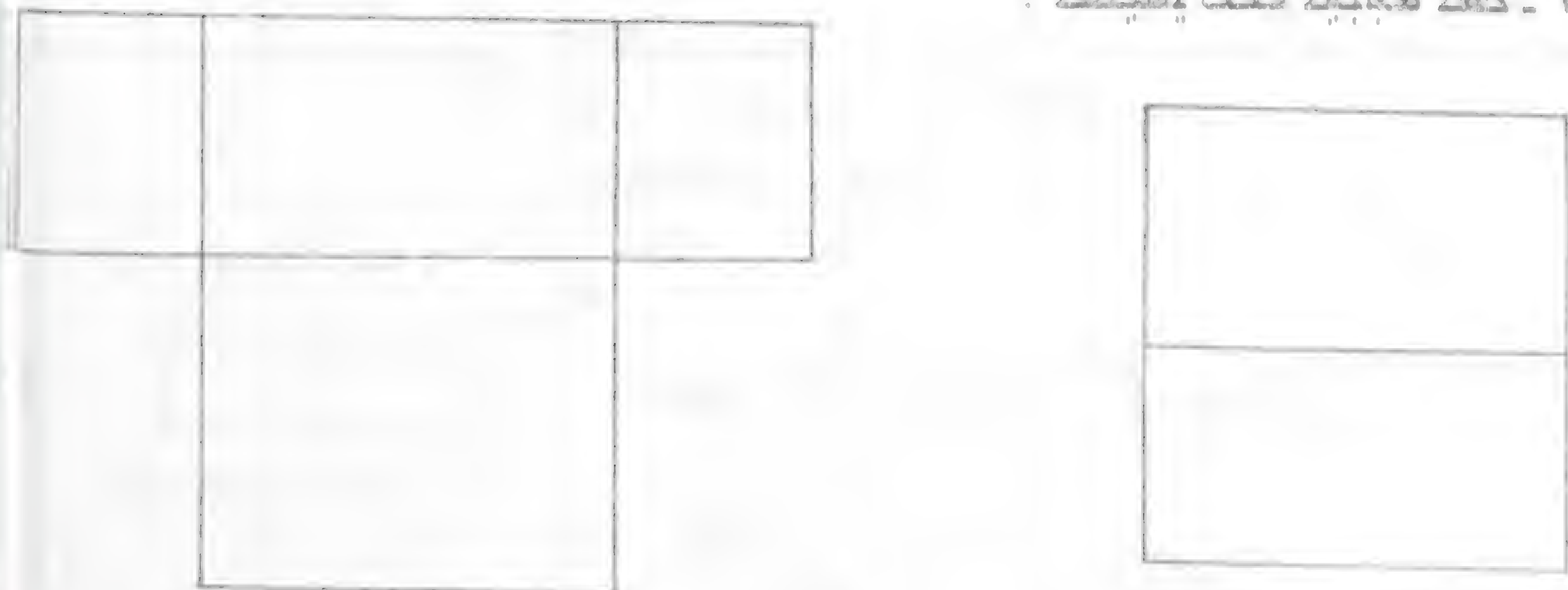
> ١ ـ ܟܠ ܚܕ ܡܢ ܣܛܪ̈ܐ ܐܪ̈ܒܥܐ ܕܡܪܒܥܐ ܫܘܝ̈ܐ ܐܢܘܢ ܒܡܫܘܚܬܐ.
>
> ٢ ـ ܐܪܒܥܬܝܗܝܢ ܙܘܝ̈ܬܐ ܕܡܪܒܥܐ ܬܪܝܨ̈ܬܐ ܐܢܝܢ.
>
> ٣ ـ ܟܠ ܚܕ ܡܢ ܣܛܪ̈ܐ ܐܪ̈ܒܥܐ ܕܡܪܒܥܐ ܡܫܘܝܐ ܐܢܘܢ.

ܕܘܪ̈ܫܐ (٦ – ٧ ܒ)

١ ـ ܚܙܝ ܐܝܢܐ/ܐ ܠܗܘܢ ܕܡܬܚܙܝܢ ܕܗܘܝܢ ܡܪܒܥܐ ܡܢ ܒܝܬ ܗܠܝܢ ܕܐܝܬܝܗܘܢ ܒܨܘܪ̈ܬܐ ܕܠܬܚܬ:



٢ ـ ܟܡܐ ܡܪܒܥ̈ܐ ܒܟܠ ܕܡܬܚܙܐ ؟



٢ . ܦܠܘܚ ܡܫܘܚܬܐ ܕܐܝܟ ܡܪܒܥܐ ܕܝܠܗ̇ ܦܬܝܘܬܐ ܒܟܠ ܚܕ ܡܢ ܨܘܪ̈ܬܐ ܕܐܬܝܢ :

ܣܡ ٤ — ܣܡ ٦ — ܣܡ ٤ (١)

ܣܡ ٤ — ܣܡ ٢½ (٢)

ܣܡ ٥½ — ܣܡ ٤ (٣)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] (١)

ܐܢܐ ܡܪܒܥܐ ܡܣܪܓܠܐ ܐ ܒ ܓ ܕ ܐܘܪܟܗ ٦ ܣܡ ܘܦܬܝܘܬܗ ٣ ܣܡ



ܣܡ ٦ [illegible] (٦ - ٢٠)

[illegible] :

١ . [illegible]

٦ ܣܡ , [illegible]

٢ . [illegible]

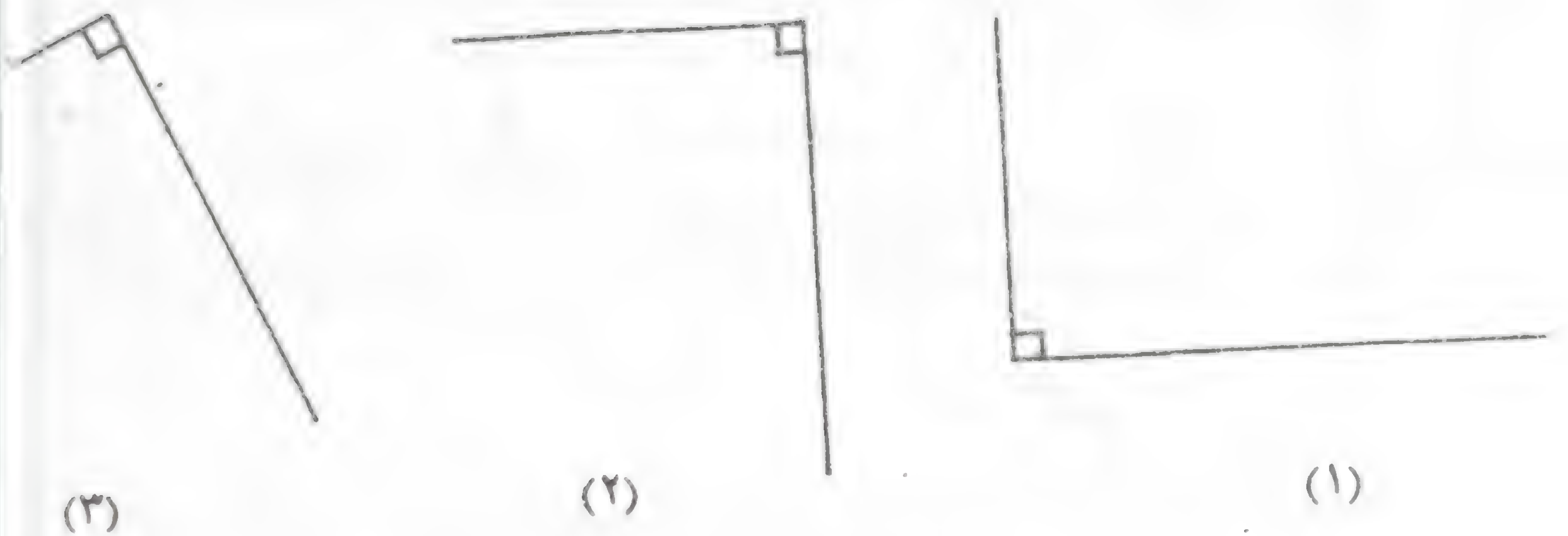
[illegible]

٣ - ܐܚܘܕ ܘܪܫܘܡ ܢܘܩܙܬܐ ܕ ، ܗ ܐܝܟ ܕܡܘܩܕܐ ܕܟܝܠܐ ܐܡܪܐ ܕܗܘܐ ܡܘܪܟܐ ܕ ܐ ܕ = ܒܓ = ٣ ܣܡ

٤ - ܪܫܘܡ ܟܝܠ ܓ̰ ، ܕ ܠܕܒܫܡܐ ܕܣܛܪܐ ܘܦܣܩ ܕ ܓ ܘܫܝܡ ܕܒܫܡܐ ܕܫܘܚܠܦܐ ܐ ܒ ܓ ܕ

ܬܘܪ̈ܓܡܐ (٦ - ٧ب)

(١) ܫܝܡ ܦܬܫܡܐ ܕܫܘܚܠܦܐ ܒܟܠ ܚܕ ܕܪ̈ܫܡܐ :



(٢) ܪܫܘܡ ܡܫܘܚܠܦܐ ܐ ܒ ܓ ܕܐܝܬܘܗܝ ܐ ܒ = ٦ ܣܡ ، ܒ ܓ = ٨ ܣܡ. ܪܫܘܡ ܐ ، ܓ ܘܐܚܘܕ ܐ ܓ (ܡܘܪܟܐ ܕܣܛܪܐ ܘܫܝܢܐ)

ܐܚܘܕ ܡܫܘܚܠܦܐ ܒ ܓ. ܡܢܐ ܚܙܝܬ ܗܘܝܐ؟

ܡܬܚܘܝܢܘܬܐ : ܟܕ ܐܡܪ ܠܡܘܪܟܐ ܕܣܛܪܐ ܐ ܒ ܒܪܫܘܡܐ ܐ ܒ.

ܡܪܒܥܐ ١

ܒܨܘܪܬܐ (٦ - ٢١) ܡܪܒܥܐ،

ܪ̈ܝܫܗ : ܐ

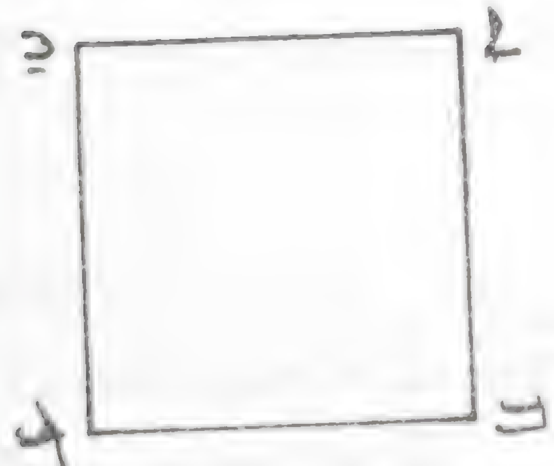
ܐܠܟܣܗ : ܐ ܒ،

ܙܘܝܬܗ : ܐ ܒ̂ ܓ،

ܡܬܚܘܝ ܡܘܪܟܐ ܕܐܠܟܣܐ ܕܡܪܒܥܐ. ܡܢܐ ܚܙܝܬ ܗܘܝܐ؟

ܡܬܚܘܝ ܙܘܝܬܐ ܕܡܪܒܥܐ. ܡܢܐ ܚܙܝܬ ܗܘܝܐ؟

ܐܚܘܕ ܡܫܘܚܠܦܐ ܕܟܠ ܬܪܝܢ ܐܠܟܣܐ ܐܚܪ̈ܢܐ. ܡܢܐ ܚܙܝܬ ܗܘܝܐ؟



ܨܘܪܬܐ (٦ - ٢١)

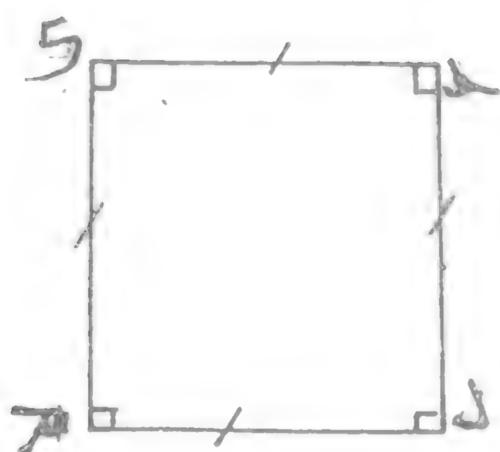
ܬܘܪ̈ܓܡܐ :

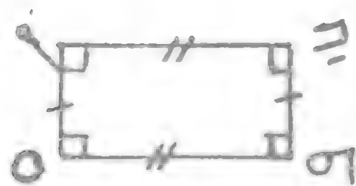
ܡܪܒܥܐ ܒܝܠܗ ܡܣܬܛܝܠܐ ܣܘܟܡܐ ܕܦܐܬܘܗܝ ܫܘܝܐ ܝܢܐ

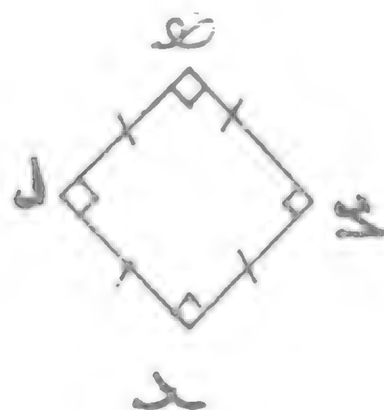
ܕܘܪܫܐ (٦ – ٧)

ܟܬܘܒ ܠܣܘܟ̈ܡܐ ܗܕ̈ܝܐ ܒܥܠ ܡܐ ܕܒܥܐ :

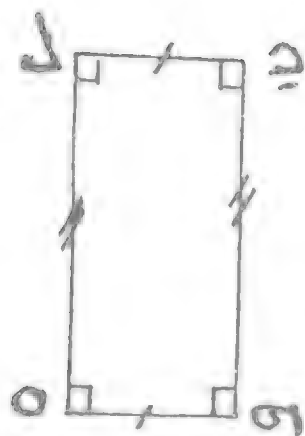
(١) ܝܗܒܝܢ ܕܐܝܢܐ ܝܠܗ ܡܪܒܥܐ ܒܝܠܗ :

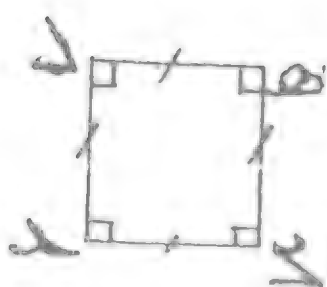


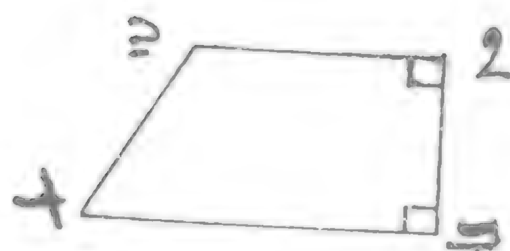




(٢) ܝܗܒܝܢ ܕܐܝܢܐ ܝܠܗ ܡܣܬܛܝܠܐ ܒܝܠܗ :







ܟܬܘܒ ܣܘܟ̈ܡܐ ܗܕ̈ܝܐ ܒܥܠ ܕܒܥܐ :

(٣) ܡܪܒܥܐ ܣܘܟܡܐ ܕܦܐܬܘܗܝ ٥ ܣܡ، ܚܕܪܘܗܝ ܟܡܐ:

(ܐ) ١٥ (ܒ) ٢٠ (ܓ) ٢٥

(٤) ܡܪܒܥܐ ܚܕܪܘܗܝ ١٦ ܣܡ، ܣܘܟܡܐ ܕܦܐܬܘܗܝ ܟܡܐ .

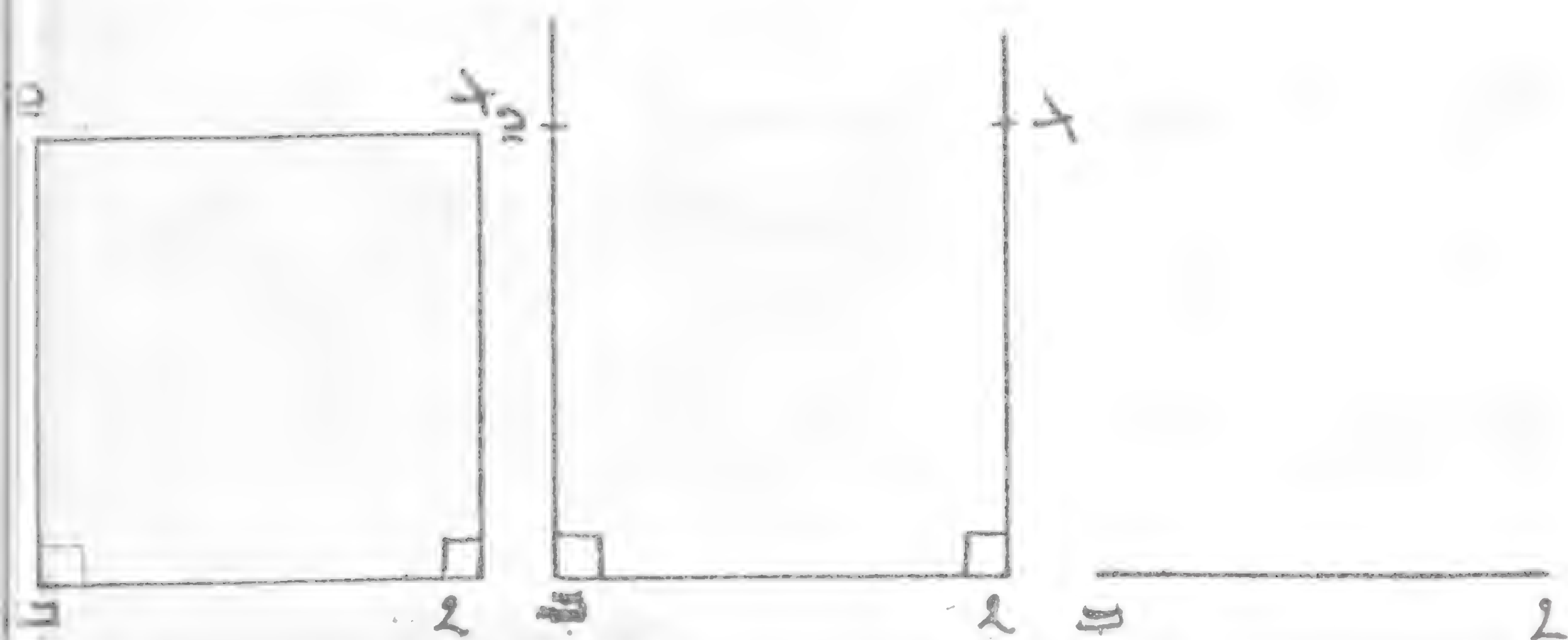
(ܐ) ٤ (ܒ) ٨ (ܓ) ١٢

ܪܫܡܬܐ ܕܡܪܒܥܐ ܕܝܕܝܥܐ ܣܘܪܐ ܕܐܠܥܘܗܝ :-

ܟܕ ܦܪܫܐ ܣܘܪܐ ܕܪܫܡܬܐ ܕܡܪܒܥܐ ܐܝܟ ܣܘܪܐ ܕܡܫܬܘܐ ܒܪܫܡܬܐ ܕܡܣܬܝܒ ܒܡܪܒܥܐ ܕܡܪܒܥܐ ܡܣܬܝܒ ܐܠܥܘܗܝ ܫܘܝܐ ܒܣܘܪܐ.

ܡܬܠܐ (٢)

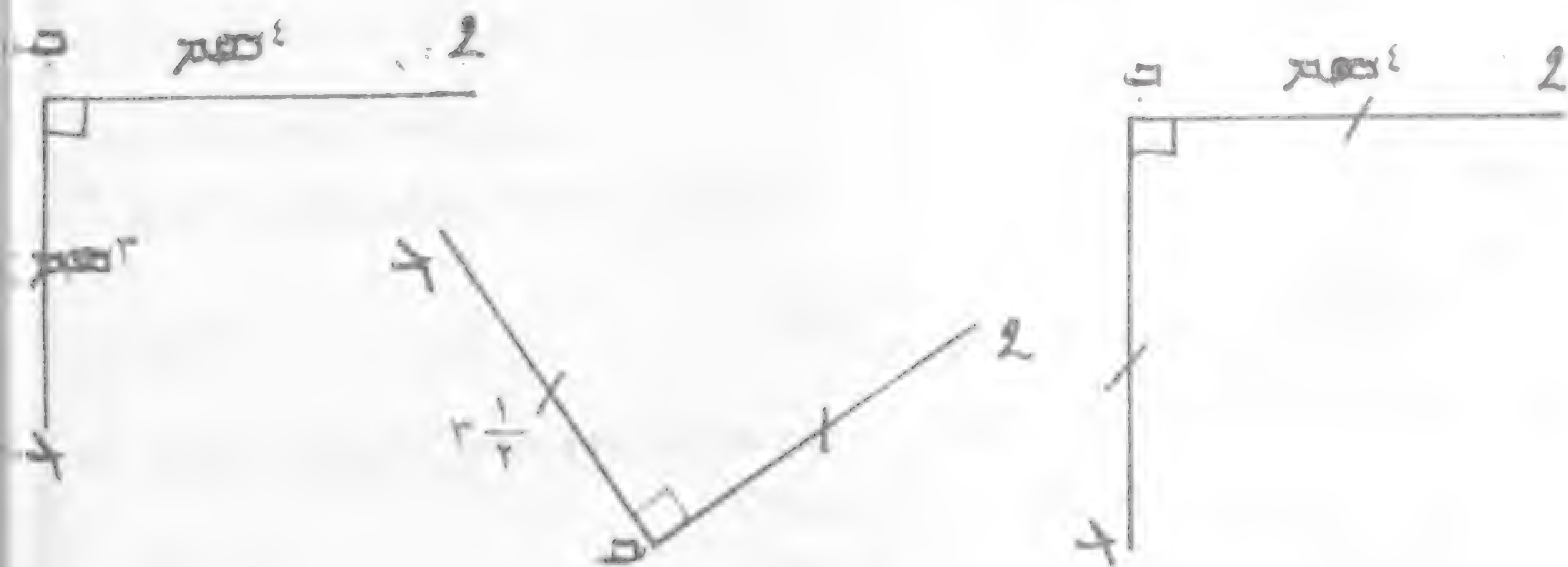
ܪܫܘܡ ܡܪܒܥܐ ܣܘܪܐ ܕܐܠܥܘܗܝ ٤ ܣܡ.



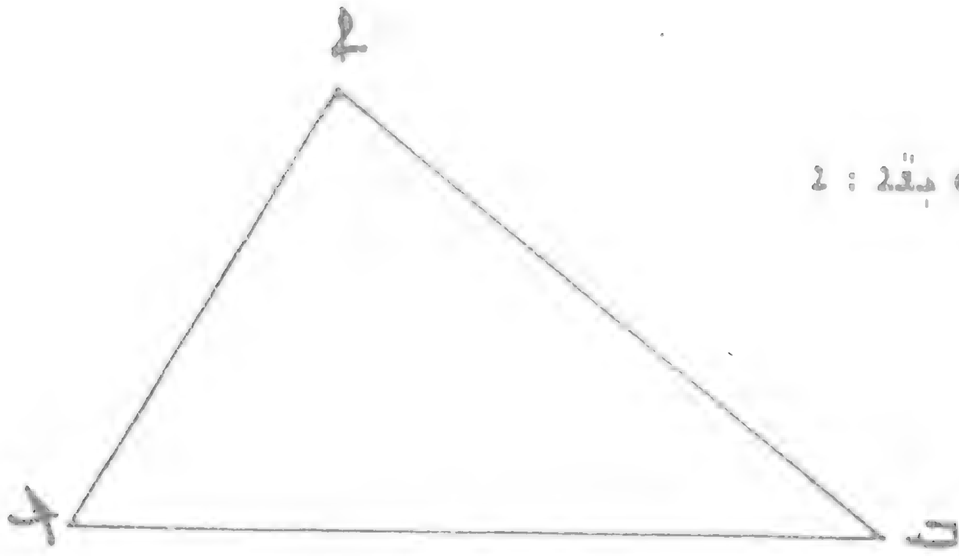
ܒܣܘܦ ܠܣܘܪܐ ܡܫܘܚܬܐ ܥܠ ܦܣܘܥܬܐ ܡܢ ܐܠܥܘܗܝ، ܦܣܘܥܝܬܐ.

ܕܘܪܫܐ (٦ – ٧ ﺟ)

ܘܦܘܫ ܠܪܫܡܐ ܕܫܘܝܐ ܠܡܫܬܝܒ ܐܘ ܡܪܒܥܐ ܐܝܟ ܚܠܝܬܐ ܣܘܪܝܐ:



(٦ - ٨) ܡܬܠܬܐ ܘܙܘܝ̈ܬܗ :



ܒܨܘܪܬܐ (٦ - ٢٢) ܡܬܠܬܐ، ܪ̈ܫܝܗ ܗܢܘܢ : ܐ

ܐܠܥ̈ܘܗܝ ܗܢܘܢ : $\overline{ܐܒ}$

ܘܙܘܝ̈ܬܗ ܗܢܘܢ : ܐܒ̂ܓ،

ܨܘܪܬܐ (٦ - ٢٢)

ܡܘܪܢܐ (١)

ܐܣܪܘܛ ܒܝܢ ܢܘܩܙ̈ܐ، ܕܢܬܥܒܕܘܢ ܬܠܬܐ ܡܬܠܬ̈ܐ (ܐܝܟ ܡܚܘܝܢܐ ܠܥܠ)

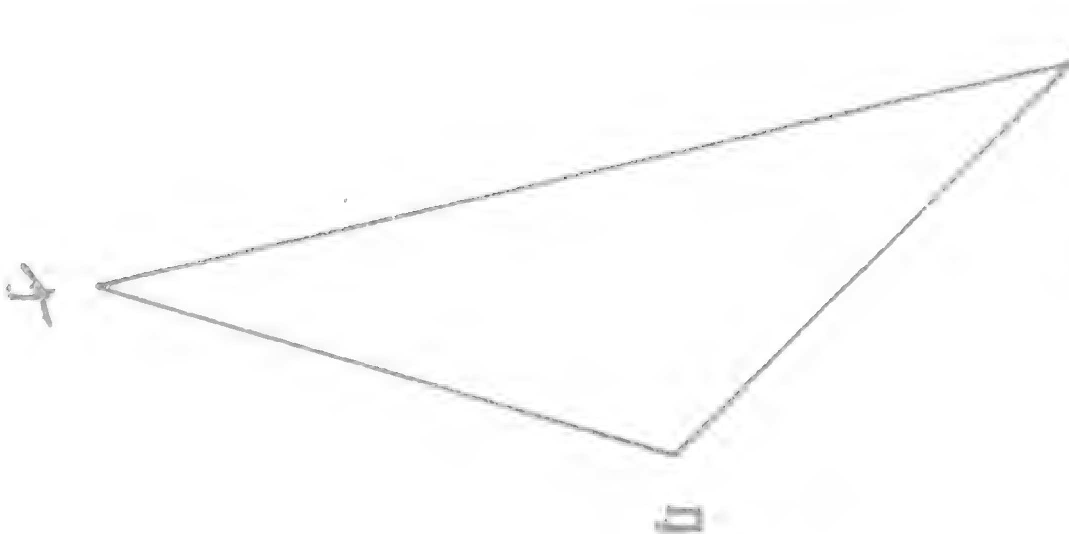
(٣)	(٢)	(١)
ܗ̇	ܕ	ܓ
ܟ̇		
ܠ̇ ܘ̇	ܛ ܚ̇	ܙ ܚ̇

ܐܝܢܐ ܡܢ ܐܝܠܝܢ ܕܥܒܕܬ ܡܬܠܬܐ ܒܢܘܩܙ̈ܐ ܐܚܪ̈ܢܐ ؟

ܐܝܟܢ ܠܐ ܡܨܝܬ ܠܡܥܒܕ ܢܘܩܙ̈ܐ ܬܠܬܐ ܠܡܬܠܬܐ ؟

ܡܘܪܢܐ (٢)

ܐܡܫܘܚ ܡܘܫ̈ܚܬܐ ܕܐܠܥ̈ܐ ܕܡܬܠܬܐ ܘܡܫܘܚܬܐ ܕܙܘܝ̈ܬܗ



ܐܒ = □ ܣܢܛܝܡ

ܒܓ = □ ܣܢܛܝܡ

ܓܐ = □ ܣܢܛܝܡ

ܡܫܘܚܬܐ ܐܒܓ = □°

ܡܫܘܚܬܐ ܒܓ̂ܐ = □°

ܡܫܘܚܬܐ ܓܐ̂ܒ = □°

ܐܕ̈ܫܐ ܕܡܬܠܬܐ ܒܚܘܫܒܐ ܕܨܠܥܘ̈ܗܝ

ܡܫܘܚ ܐܘܪ̈ܟܐ ܕܨܠ̈ܥܐ ܕܡܬܠܬܐ ܡܚܘܝܢܐ
ܒܨܘܪܬܐ (٦ - ٢٣):

ܐܘܪܟܐ $\overline{ܐܒ}$ = ܐܒ = □ ܣܡ ,

ܐܘܪܟܐ $\overline{ܒܓ}$ = ܒܓ = □ ܣܡ ,

ܐܘܪܟܐ $\overline{ܓܐ}$ = ܓܐ = □ ܣܡ ,

ܨܘܪܬܐ (٦ - ٢٣)

ܐܢܐ ܡܫܟܚܬܘܢ ܡܢ ܕܐܘܪ̈ܟܐ ܕܬܠܬܝܗܘܢ ܨܠ̈ܥܐ ܫܘܝ̈ܐ ܐܢܘܢ ؟

ܐܝܟ ܕܗܘܐ ܡܬܠܬܐ ܕܟܠܗܘܢ ܐܘܪ̈ܟܐ ܕܬܠܬܝܗܘܢ ܨܠ̈ܥܘܗܝ ܫܘܝܢ ܡܬܩܪܐ (ܡܬܠܬܐ ܫܘܝ ܨܠ̈ܥܐ)

ܡܫܘܚ ܐܘܪ̈ܟܐ ܕܨܠ̈ܥܐ ܕܡܬܠܬܐ ܕ ܗ ܘ
ܡܚܘܝܢܐ ܒܨܘܪܬܐ (٦ - ٢٤):

ܕܗ = □ ܣܡ

ܗܘ = □ ܣܡ

ܕܘ = □ ܣܡ

ܡܢܐ ܚܙܝܬܘܢ ؟

ܨܘܪܬܐ (٦ - ٢٤)

ܡܬܠܬܐ ܕܟܠܗ ܬܪܝܢ ܨܠ̈ܥܐ ܫܘܝܢ ܡܬܩܪܐ (ܡܬܠܬܐ ܫܘܝ ܬܪܝܢ ܨܠ̈ܥܐ)

ܡܫܘܚ ܐܘܪ̈ܟܐ ܕܨܠ̈ܥܐ ܡܬܠܬܐ ܙ ܚ ܛ
ܡܚܘܝܢܐ ܒܨܘܪܬܐ (٦ - ٢٥)

ܙܚ = □ ܣܡ

ܚܛ = □ ܣܡ

ܛܙ = □ ܣܡ

ܡܢܐ ܚܙܝܬܘܢ ؟

ܨܘܪܬܐ (٦ - ٢٥)

ܐܢ ܬܠܬܝܗܘܢ ܐܘܪ̈ܟܐ ܕܨܠ̈ܥܐ ܕܡܬܠܬܐ ܦܪܝܫܝܢ ܡܬܩܪܐ (ܡܬܠܬܐ ܦܪܝܫ ܨܠ̈ܥܐ)

ܕܘܪܫܐ (٦ – ٨ ܓ)

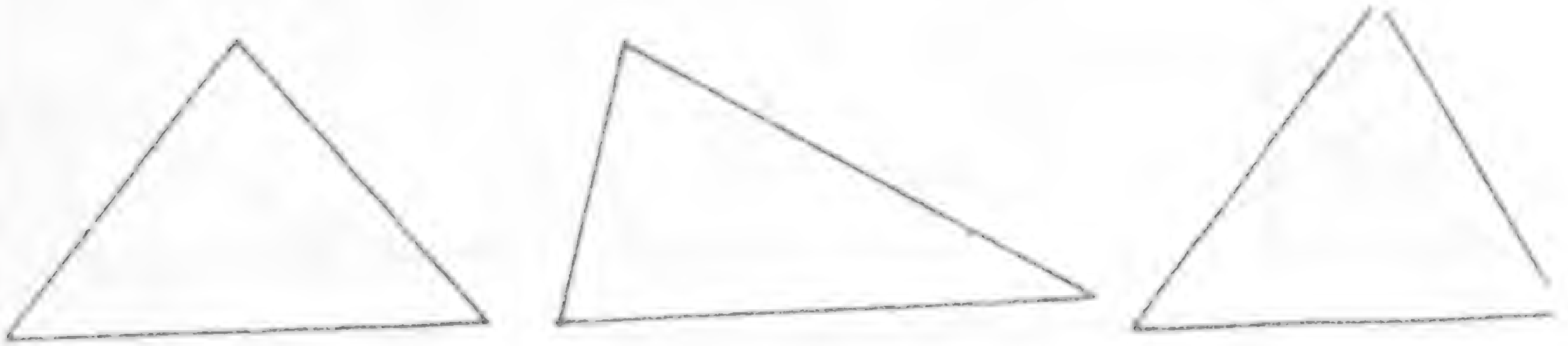
١ - ܡܚܘܝ ܢܘܕܥܐ ܕܙܘܝܬܐ ܕܟܠ ܡܬܠܬܐ ܡܢ ܗܠܝܢ ܬܚܬܝܐ :

٢ - ܒܬܪ ܡܥܠܝܬܐ ܕܚܘܝܬܐ، ܐܡܪ ܐܝܢܐ ܕܟܠ ܡܬܠܬܐ ܠܦܘܬ ܨܠܥܘܗܝ :

٣ - ܚܘܝ ܠܡܥܒܕܢܐ ܕܡܬܠܬܐ ܟܕ ܚܙܝܬ ܙܠܝܬܐ ܟܠ ܕܡܬܝܚܐ ܘܥܒܕ ܕܘܝܬܐ ܘܡܬܒܝܢܐ.

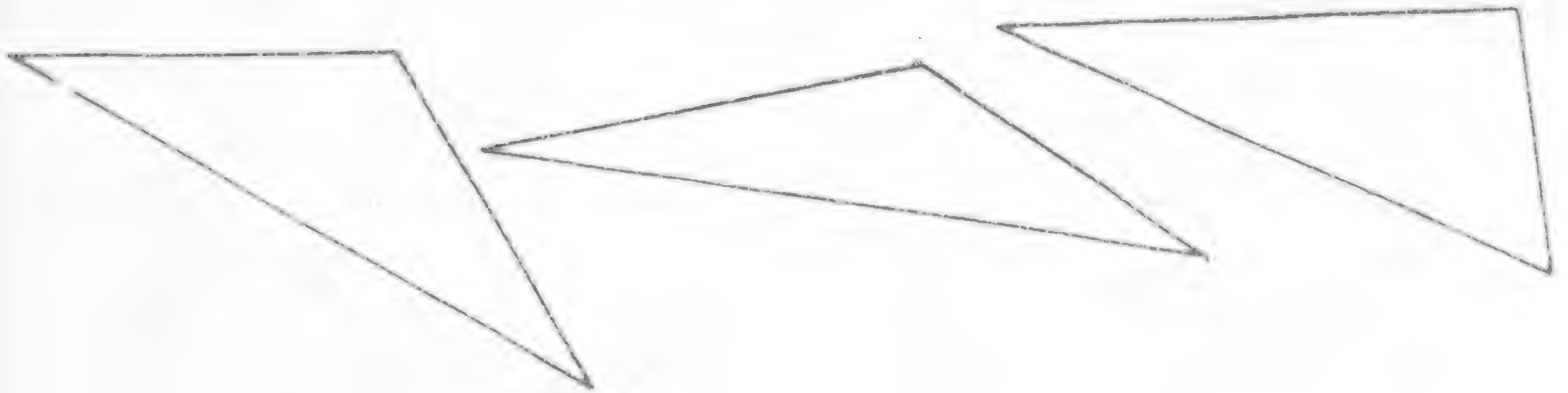
ܐ̈ܕܫܐ ܕܡܬܠܬܐ ܒܝܕ ܙܘ̈ܝܬܗ :

ܕܥܐ ܐܕܫܐ ܕܟܠ ܙܘܝܬܐ ܟܠܟܠ ܡܬܠܬܐ ܒܡܙܘܓܝܬܐ ܒܠܫܢܝ، ܟܕ ܚܙܝܬ ܡܢ ܡܢܝܢܐ ܕܡܬܝܢܘܬ ܕܡܫܟܚܬܐ ܕܩܠܝܬܐ.



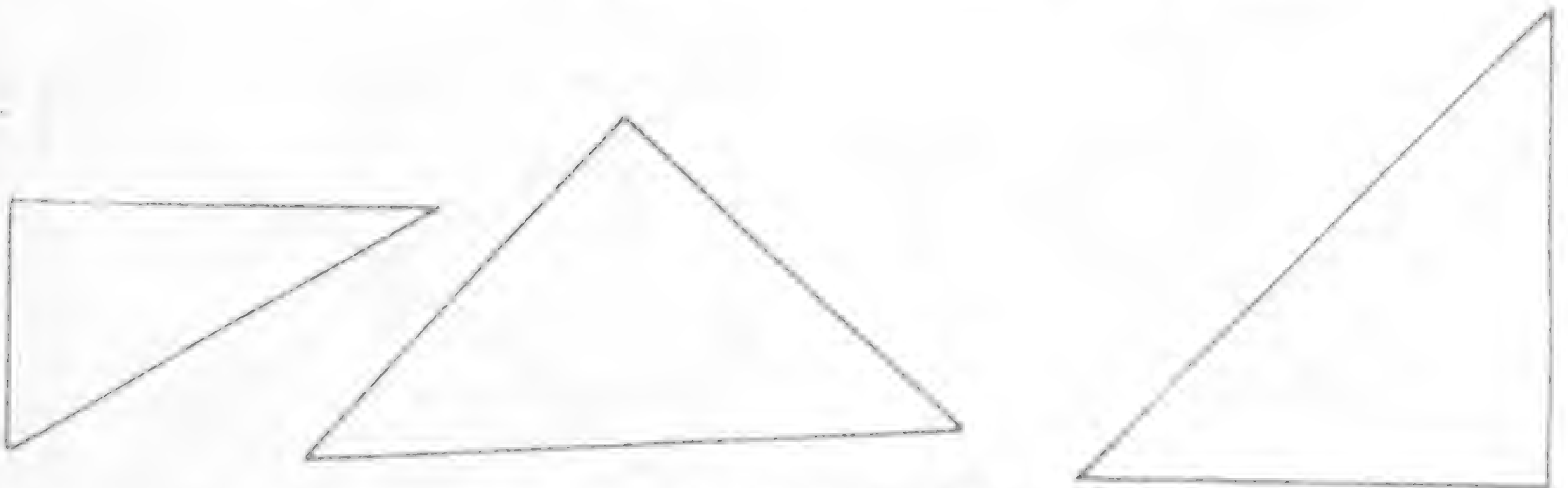
ܟܠܗܘܢ ܟܠ ܙܘܝܬܐ ܡܢ ܬܠܬܝܗܝ ܙܘ̈ܝܬܐ ܕܡܬܠܬܐ ܚܪܝܦܬܐ ܩܪܝܐ ܝܠܗ (ܡܬܠܬܐ ܚܪܝܦ ܙܘ̈ܝܬܐ).

ܐܦ ܡܬܘܕܥ ܟܠ ܡܬܠܬܐ ܗܢܐ ܕܐܝܬ ܠܗ ܐ̈ܕܫܐ ܕܟܠ ܙܘܝܬܐ ܡܢ ܙܘ̈ܝܬܗ ܒܡܙܘܓܝܬܐ ܒܠܫܢܝ ܟܕ ܚܙܝܬ ܡܢ ܡܢܝܢܐ ܕܡܬܝܢܘܬ ܕܡܫܟܚܬܐ ܕܩܠܝܬܐ.



ܚܕܐ ܙܘܝܬܐ ܟܠܗ ܥܒܝܬܐ ܩܪܝܐ ܝܠܗ (ܡܬܠܬܐ ܥܒܝ ܙܘ̈ܝܬܐ)

ܗܕܝ ܠܡܬܠܬ̈ܐ ܗܢܘܢ ܠܬܠܬܗܘܢ ܡܬܠܬ̈ܐ ܕܐܝܢ :



ܚܕܐ ܙܘܝܬܐ ܒܡܬܠܬܐ ܗܘܬ ܩܝܡܬܐ ܩܪܝܐ ܝܠܗ (ܡܬܠܬܐ ܩܝܡ ܙܘܝܬܐ)

ܕܘܪܫܐ (٦ - ٨ܒ)

١ - ܒܕܘܩ ܒܣܘܪܓܐ ܒܡܫܘܚ ܠܙܘܝܬܐ ܕܟܠ ܡܬܠܬܐ ܠܚܘܕ ܙܘܝܬܐ، ܡܢ ܒܬܪ ܟܬܘܒ ܫܡܗܐ ܕܡܬܘܫܚܬܐ ܕܟܠ ܚܕ ܡܢܝܗܘܢ.

٢- ܒܕܘܩ ܒܣܘܪܓܐ ܒܡܫܘܚ ܠܙܘܝܬܐ ܕܟܠ ܡܬܠܬܐ ܠܚܘܕ ܣܠܩܐ ܘܠܚܘܕ ܙܘܝܬܐ (ܕܠܐ ܡܬܠܬܐ ܕܥܠܝܗ ܕܡܬܘܫܚܬܐ):

<u>ܚܘܒܪܐ ܕܡܬܘܫܚܬܐ ܕܙܘܝܬܐ ܕܡܬܠܬܐ:</u>

ܡܨܝܬ ܠܡܠܝܬܐ ܟܬܝܒܬܐ ܕܡܬܘܫܚܬܐ ܕܬܠܬܐ ܕܙܘܝܬܐ ܒܟܠ ܡܬܠܬܐ، ܡܢ ܝܕܥܬ ܚܘܒܪܐ ܕܡܬܘܫܚܬܐ ܕܬܪܬܝܢ ܙܘܝܬܐ:

ܟܢܘܫܝܐ ܕܡܫܘܚܝܬܐ ܕܙܘܝܬܐ ܕܡܬܠܬܐ ܐ ܒ ܓ = ٦٤° + ٤١° + =

ܟܢܘܫܝܐ ܕܡܫܘܚܝܬܐ ܕܙܘܝܬܐ ܕܡܬܠܬܐ ܕ ܗ ܘ = ٩٠° + + =

ܟܢܘܫܝܐ ܕܡܫܘܚܝܬܐ ܕܙܘܝܬܐ ܕܡܬܠܬܐ ܙ ܚ ܛ = ٢١° + + =

ܡܢܐ ܚܙܝܐ ܗܘܝܬ ؟

ܗܫܐ ܡܫܬܟܚܬ ܠܡܠܦܐ ܕܗܕܐ :

ܟܢܘܫܝܐ ܕܡܫܘܚܝܬܐ ܕܬܠܬܗܘܢ ܙܘܝܬܐ ܕܡܬܠܬܐ ١٨٠°

ܡܬܠܐ (١)

ܕܠܐ ܡܟܝܠܬܐ ܕܡܠܝܬܐ ܐܝܟ ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܒ̂ ܓ ܒܡܬܠܬܐ ܐ ܒ ܓ.

ܫܪܝܐ .

ܡܫܘܚܬܐ ܐ ܒ ܓ + ܡܫܘܚܬܐ ܐ ܓ̂ ܒ

= ٧٠° + ٤٠° = ١١٠°

ܒܪܡ ܟܢܘܫܝܐ ܕܡܫܘܚܝܬܐ ܕܬܠܬܗܘܢ ܙܘܝܬܐ ١٨٠

ܡܟܝܠ ܡܫܘܚܬܐ ܒ ܐ ܓ = ١٨٠° − ١١٠° = ٧٠°.

(ܚܙܝ ܡܢ ܒܚܝܪܘܬܐ ܟܢܘܫܝܐ ܕܡܟܝܠܬܐ ܕܡܠܝܬܐ)

ܡܬܠܐ (٢)

ܗ ܙ ܛ ܡܬܠܬܐ ܙܩܝܦܐ ܗ ܙ̂ ܛ ܡܫܘܚܬܐ ܐܝܟ :

ܡܫܘܚܬܐ ܙ ܛ̂ ܗ + ܡܫܘܚܬܐ ܛ ܗ̂ ܙ

ܫܪܝܐ

ܡܫܘܚܬܐ ܗ ܙ̂ ܛ = ٩٠° ܣܒܪܬܐ ܙܩܝܦܬܐ

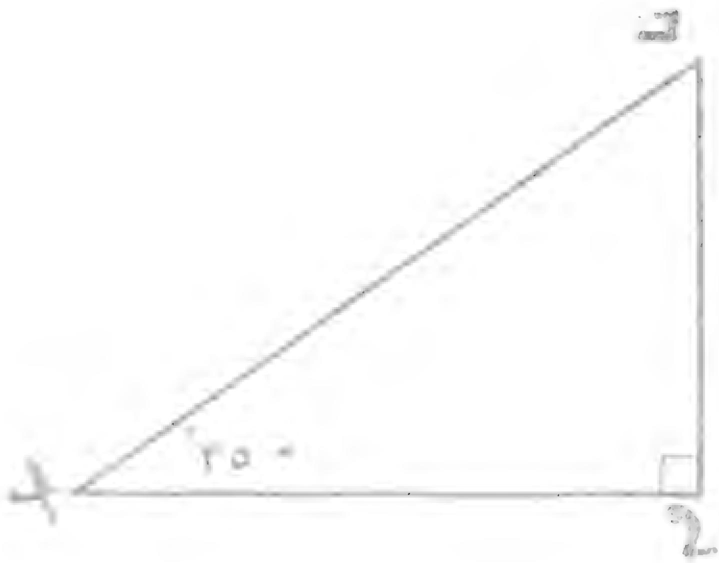
ܒܪܡ : ܡܫܘܚܬܐ ܙ ܛ̂ ܗ + ܡܫܘܚܬܐ ܛ ܗ̂ ܙ + ܡܫܘܚܬܐ ܗ ܙ̂ ܛ = ١٨٠ ܕܪܓܐ

ܡܟܝܠ : ܡܫܘܚܬܐ ܙ ܛ̂ ܗ + ܡܫܘܚܬܐ ܛ ܗ̂ ܙ + ٩٠ = ١٨٠

ܗܟܢܐ ܟܢܘܫܝܐ ܡܫܘܚܬܐ ܙ ܛ̂ ܗ + ܡܫܘܚܬܐ ܛ ܗ̂ ܙ = ٩٠ ܕܪܓܐ :

ܡܬܠܐ (٣)

ܐ ܒ ܓ ܡܬܠܬܐ ܕܐܝܬ ܙܘܝܬܐ ܠܘܬܗ ܒ ܐ̂ ܓ ܬܪܝܨܬܐ، ܘܡܫܘܚܬܐ ܕ ܓ̂ ܒ = ٣٥ ܦܫܘܛ
ܡܫܘܚܬܐ ܕ ܒ̂ ܓ ܕܠܐ ܡܦܠܚܬܐ ܕܡܠܟܝܬܐ.



ܦܘܪܫܢܐ :

ܡܫܘܚܬܐ ܒ ܐ̂ ܓ = ٩٠ ܕܒܠܝܗ ܬܪܝܨܬܐ.

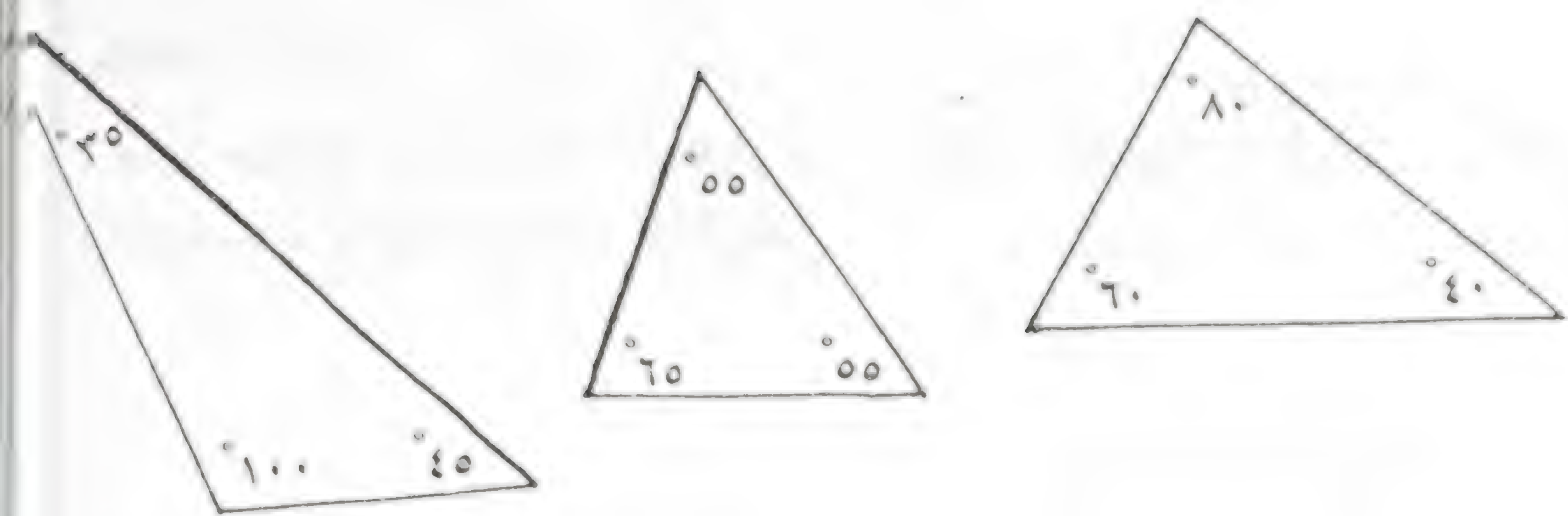
ܘܒܕ ܡܫܘܚܬܐ ܕ ܒ̂ ܓ + ܡܫܘܚܬܐ ܕ ܓ̂ ܒ + ܡܫܘܚܬܐ ܒ ܐ̂ ܓ = ١٨٠ ܦܫܛܐ؟

ܒܗܕܐ ܡܫܘܚܬܐ ܕ ܒ̂ ܓ + ٣٥ + ٩٠ = ١٨٠

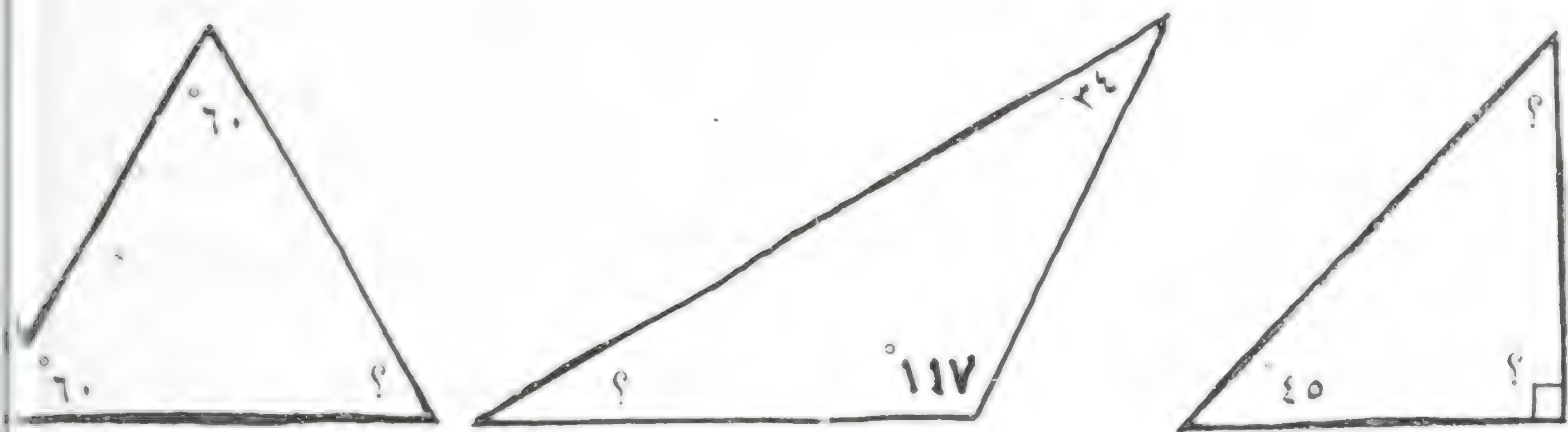
ܗܕܐ ܘܒܣ ܡܫܘܚܬܐ ܕ ܒ̂ ܓ + ١٢٥ = ١٨٠

ܗܕܝܢ ܡܫܘܚܬܐ ܕ ܒ̂ ܓ = ١٨٠ − ١٢٥ = ٥٥





(٢) ܒܝܢ ܡܫܘܚܬܐ ܕܟܠ ܙܘܝܬܐ ܕܠܐܝܕܝܥܬܐ ܒܟܠܗ ܚܕܐ ؟ ܕܟܠ ܡܬܠܬܐ ܕܬܠܝܬܝܬܐ.



(٣) ܦܢܝ ܠܡܢܐ ܕܠܐ:

(ܐ) ܐܝܢܐ ܡܬܠܬܐ ܝܠܗ ܕܗܘܐ ܠܡܬܠܬܐ ܗܕܐ ܬܪܬܝ ܙܘܝܬܐ ܪܡܝܬܐ؟ ܘܠܡܢܐ؟

(ܒ) ܐܝܢܐ ܡܬܠܬܐ ܝܠܗ ܕܗܘܐ ܠܡܬܠܬܐ ܗܕܐ ܬܪܬܝ ܙܘܝܬܐ ܥܒܝܬܐ؟ ܘܠܡܢܐ؟

(ܓ) ܐܝܢܐ ܡܬܠܬܐ ܝܠܗ ܕܗܘܐ ܠܡܬܠܬܐ ܙܘܝܬܐ ܪܡܝܬܐ ܘܐܚܪܬܐ ܥܒܝܬܐ؟ ܘܠܡܢܐ؟

(ܕ) ܐܝܢܐ ܐܝܬ ܡܢ ܕܡܬܢܝܐ ܕܫܘܬܦܘܬܗ ܡܬܠܬܐ ܥܒܝܐ ܙܘܝܬܐ؟ ܘܠܡܢܐ؟

(٤) ܡܫܘܚܬܐ ܕܚܕܐ ܙܘܝܬܐ ܕܡܬܠܬܐ ٢٠° ܘܡܫܘܚܬܐ ܕܙܘܝܬܐ ܕܐܚܪܬܐ ٧١°. ܟܡܐ ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܬܠܝܬܝܬܐ؟

(٥) ܕ ܗ ܘ ܡܬܠܬܐ ܟܠܗ ܡܫܘܚܬܐ ܕ $\hat{ܗ}$ ܘ + ܡܫܘܚܬܐ ܗ $\hat{ܘ}$ ܕ = ١٤٠°. ܐܫܟܚ ܡܫܘܚܬܐ ܘ $\hat{ܕ}$ ܗ.

(٦) ܠ ܡ ܢ ܡܬܠܬܐ ܕܫܘܝܐ ܙܘܝܬܐ ܝܠܗ ܠ. ܘܟܠܗ ܡܫܘܚܬܐ ܠ $\hat{ܡ}$ ܢ = ٦٠°. ܒܝܢ ܡܫܘܚܬܐ ܠ $\hat{ܢ}$ ܡ.

٦ ـ ٩ ܒܢܝܢܐ ܕܡܬܠܬܐ ܒܡܦܠܚܘܬܐ ܕܡܐܢ̈ܐ ܦܫܝ̈ܛܐ

ܢܝܫܐ : ܒܢܝܢܐ ܕܡܬܠܬܐ ܐܝܟܢܐ ܡܫܘܚܬܐ ܕܬܪܝܢ ܓܒ̈ܘܗܝ ܘܙܘܝܬܐ ܕܒܝܢܬ ܬܪܝܗܘܢ ܝܕܝܥܐ ܠܗ.

ܡܘܬܠܐ (١)

ܒܢܝ ܡܬܠܬܐ ܐ ܒ ܓ ܕܐܝܬ ܠܗ ܐܘܪܟܐ ܐ ܒ = ٦ ܣܡ، ܘܐܘܪܟܐ ܒ ܓ = ٣ ܣܡ، ܘܡܫܘܚܬܐ $\hat{ܒ}$ ܓ = ٦٠°.

ܡܐܢ̈ܐ :

ܣܘܪܓܐ ܘܡܫܘܚܬܐ

٣ ܣܡ

٦٠°

٦ ܣܡ

ܨܘܪܬܐ (٦ ـ ٢٦ ܐ)

ܫܘܪ̈ܝܐ ܕܥܒܕܐ :

١ ـ ܨܪܘܡ ܨܘܪܬܐ ܡܫܪܟܢܝܬܐ ܠܡܬܠܬܐ ܕܒܥܝܐ ܡܫܒܩܐ ܥܠܝܗ ܐܬܘ̈ܬܐ ܕܝܕ̈ܝܥܐ .

ܨܘܪܬܐ (٦ ـ ٢٦ ܐ)

٢ ـ ܨܪܘܡ ܦܣܩܐ ܡܢ ܫܪܝܐ $\overline{ܐ ܒ}$ ܐܘܪܟܗ ٦ ܣܡ ܡܦܠܚ ܣܘܪܓܐ

٣ ـ ܒܡܦܠܚܘܬܐ ܕܡܫܘܚܬܐ ܨܪܘܡ ܙܪܩܐ $\overleftarrow{ܒ ܕ}$ ܕܥܒܕܐ ܥܡ $\overleftarrow{ܒ ܐ}$ ܙܘܝܬܐ ܡܫܘܚܬܐ

٦٠° ܨܘܪܬܐ (٦ ـ ٢٦ ܒ)

٤ ـ ܥܝܢ ܢܩܘܕܬܐ ܓ ܥܠ $\overleftarrow{ܒ ܕ}$ ܐܝܟܐ ܕܗܘܝܐ ܐܘܪܟܐ $\overline{ܒ ܓ}$ = ٣ ܣܡ ܘܐܦ ܒܡܦܠܚܘܬܐ

ܣܘܪܓܐ . ܨܘܪܬܐ (٦ ـ ٢٦ ܓ)

٥ ـ ܡܚܒܪ ܐ ، ܓ ܒܨܪܡܐ ܦܣܩܐ ܡܢ ܫܪܝܐ $\overline{ܐ ܓ}$ ܘܡܬܡܡ ܒܢܝܢܐ ܕܡܬܠܬܐ ܐ ܒ ܓ.

ܕ

ܓ

٣ ܣܡ

٦٠°

ܒ

ܐ

٦ ܣܡ

ܨܘܪܬܐ (٦ ـ ٢٦ ܓ)

ܕ

٦٠°

ܒ

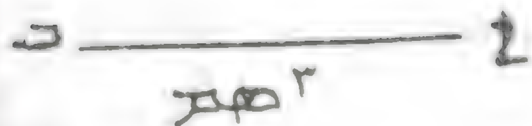
ܐ

٦ ܣܡ

ܨܘܪܬܐ (٦ ـ ٢٦ ܒ)

ܕܘܪܫܐ (٦ - ٩)

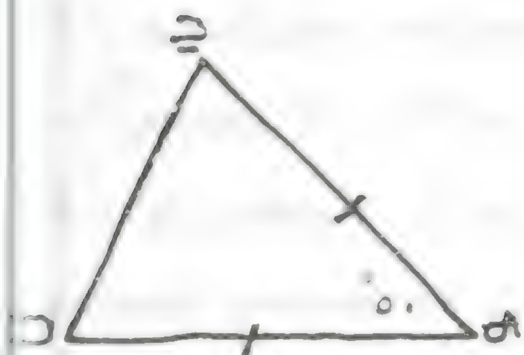
١ - ܨܘܪ ܢܬܡܚܐ ܕܡܬܠܬܐ ܐ ܒ ܓ ܕܐܝܠܗ:
ܡܫܘܚܬܐ ܐ ܒ̂ ܓ = ٧٠°
، ܐܘܪܟܐ ܒ ܓ = ٥ ܣܡ

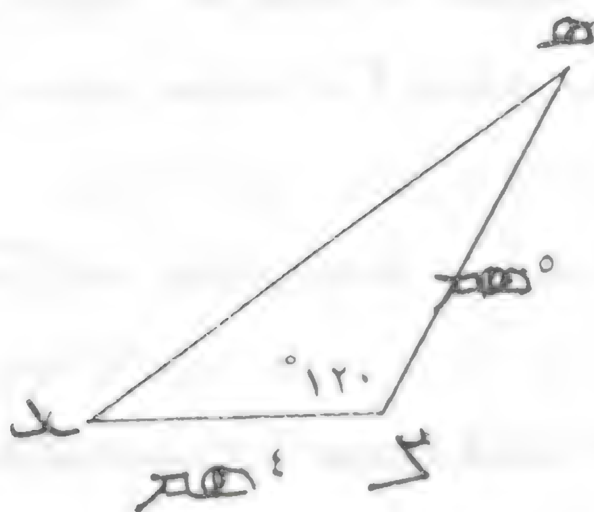


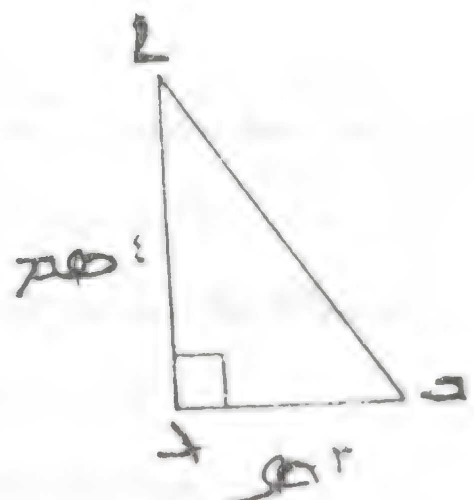
٢ - ܨܘܪ ܢܬܡܚܐ ܕܡܬܠܬܐ ܕ ܗ ܘ ܕܐܝܠܗ: ܘ:
ܐܘܪܟܐ ܕ ܘ = ٣،٥ ܣܡ
ܡܫܘܚܬܐ ܗ ܕ̂ ܘ = ٥٠°



٣ - ܒܗܘ ܕܐܝܟ ܕܡܟܣܝܐ ܡܬܚܙܝܐ ܠܡܬܠܬܐ، ܗܘ ܟܠܝܬܐ ܕܡܘܫܚܐ ܗܢܐ؟
ܗܒ ܫܡܗܐ ܕܟܠܗܘܢ، ܡܬܠܬܐ ܕܝܘܩܬܐ ܡܫܟܚܬܐ ܗܢܝܢ ܨܘܪܝܐ.







٤ - ܫܪܘܛ ܠܡܬܠܬܐ ܗ ܙ ܚ ܕܐܝܠܗ ܐܘܪܟܐ ܙ ܚ = ٤،٥ ܣܡ، ܘܐܘܪܟܐ ܗ ܙ = ٦ ܣܡ
ܘܡܫܘܚܬܐ ܕܙܘܝܬܐ ܗ ܙ̂ ܚ = ١٣٥°. ܒܬܪ ܡܫܘܚ ܐܘܪܟܐ ܗ ܚ.

ܡܦܩ : ܐܪܫܡܬܐ ܕܡܬܠܬܐ ܕܝܕܝܥܐ ܡܬܘܡܬܐ ܕܬܪܝ ܡܢ ܙܘܝܬܗ ܘܡܘܪܟܐ ܕܨܠܥܐ ܕܡܬܚܬܝܐ
ܒܝܢ ܬܪܬܝܗܝܢ.

ܡܬܠܐ (٢)

ܐܪܫܘܡ ܡܬܠܬܐ ܐ ܒ ܓ ܕܐܝܬ ܠܗ ܡܘܪܟܐ $\overline{ܒ ܓ}$ = ٥ ܣܡ، ܘܡܬܘܡܬܐ ܐ $\hat{ܒ}$ ܓ = ١٢٠°
ܘܡܬܘܡܬܐ ܐ $\hat{ܓ}$ ܒ = ٣٥°

ܦܘܪܩܐ :

ܡܘܢܐ ܘܡܬܠܬܐ

ܦܣܘܩܝܬܐ ܕܥܒܕܢܘܬܐ :

١ ـ ܐܪܫܘܡ ܠܡܚܛܐ ܡܢ $\overline{ܒ ܓ}$ ܡܘܪܟܗ = ٥ ܣܡ

٢ ـ ܡܢ ܢܘܩܕܬܐ ܒ ܐܪܫܘܡ ܙܘܝܬܐ ܡܢ ܓܒ $\overleftarrow{ܒ ܓ}$ ܘܡܬܘܡܬܐ
ܡܬܘܡܬܗ ١٢٠° ܨܘܪܬܐ (٦ ـ ٢٧ ܐ)

٣ ـ ܡܢ ܢܘܩܕܬܐ ܓ ܐܪܫܘܡ ܙܘܝܬܐ ܐܚܪܬܐ ܡܢ ܓܒ $\overleftarrow{ܓ ܒ}$ ܘܡܬܘܡܬܐ ܡܬܘܡܬܗ
٣٥° ܨܘܪܬܐ (٦ ـ ٢٧ ܐ)

٤ ـ ܢܩܝܦ ܢܘܩܕܬܐ ܕܡܚܛܐ ܕܙܘܝܬܐ ܕܬܪܬܐ ܘܐܡܬܘܠܗ ܢܩܕܬܐ ܐ ܕܗܕܐ ܡܬܠܬܐ ܐ ܒ ܓ
ܡܬܠܬܐ. ܨܘܪܬܐ (٦ ـ ٢٧ ܒ)

ܨܘܪܬܐ (٦ ـ ٢٧ ܒ)

ܨܘܪܬܐ (٦ ـ ٢٧ ܐ)

ܕܘܪ̈ܫܐ (٦ - ٩ ܒ)

١ - ܪܫܘܡ ܡܬܠܬܐ ܕ ܗ ܘ ܘܫܩܘܠ ܠܗ ܘ ܕܠܘܬܗ ܣܘܪܓܐ $\overline{ܗ ܘ}$ = ٦ ܣܡ ܘܡܫܘܚܬܐ ܕܙܘܝܬܐ ܕ ܗ̂ ܘ = ٥٠°. ܡܫܘܚ ܣܘܪܓܐ ܕܚܠ ܡܢ ܐܪܒܥܐ، ܐܠܠܐ ܐܚܪ̈ܢܐ.

٢ - ܪܫܘܡ ܡܬܠܬܐ ܐ ܒ ܓ ܕܠܘܬܗ:

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܐ ܒ̂ ܓ = ١٠٠°

ܣܘܪܓܐ $\overline{ܒ ܓ}$ = ٤،٥ ܣܡ

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܐ ܓ̂ ܒ = ٣٥°

ܡܫܘܚ ܣܘܪܓܐ ܕܚܠ ܡܢ $\overline{ܐ ܒ}$ ، $\overline{ܐ ܓ}$

٣ - ܚܙܝ ܒܐܣܟܡ̈ܐ ܕܬܚܬܝ ܕܠܬܚܬ ، ܘܚܫܘܒ ܠܬܠܬܐ ܢܘܩܙ̈ܐ، ܟܠ ܚܕ ܡܢ ܡܬܠܬܐ ܕܡܬܠܬܐ ܒܓܘܫܡܐ ܡܫܘܚܬܐ ܡܢܝܢ ܚܕ̈ܢܐ:

ܐ

ܒ ܓ

٥٥° ٥٥°

ܨܘܪ ٥

ܝܕܥܬ ܕܟܠ ܡܬܠܬܐ ܕܡܫܘܝܬܐ :

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܒ ܐ̂ ܓ

ܘܝܕܥܬ ܒܡܫܘܚܬܐ :

ܣܘܪܓܐ $\overline{ܐ ܒ}$، ܣܘܪܓܐ $\overline{ܐ ܓ}$

ܡܐ ܚܙܝܐ ܗܘܝܐ؟

ܨܘܪ ٤

ܣ

ܙ ܚ

٨٠°

ܝܕܥܬ ܒܡܫܘܚܬܐ ܕܡܫܘܝܬܐ :

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܙ ܣ̂ ܚ، ܣܘܪܓܐ $\overline{ܣ ܚ}$

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܣ ܚ̂ ܙ، ܡܐ ܚܙܝܐ ܗܘܝܐ؟

ܨܘܪ ٧

ܕ

ܘ ܗ

٦٠° ٦٠°

ܝܕܥܬ ܕܟܠ ܡܬܠܬܐ ܕܡܫܘܝܬܐ:

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܗ ܕ̂ ܘ

ܝܕܥܬ ܒܡܫܘܚܬܐ ܕܚܘܝܬܐ :

ܣܘܪܓܐ $\overline{ܕ ܗ}$، ܘܣܘܪܓܐ $\overline{ܕ ܘ}$

ܡܐ ܚܙܝܐ ܗܘܝܐ؟

٦ - ١٠ ܙܵܘܝܼܬ݂ܵܐ ܦܫܝܼܛܵܐ

ܚܙܝ ܒܨܘܼܪܬ݂ܵܐ (٦ ـ ٢٨) ܘܣܝܼܡ ܗܘܵܐ ܕܗܵܐ:

- ܙܵܘܝܼܬ݂ܵܐ ܐ ܒ̂ ܓ، ܓ ܒ̂ ܕ

ܡܫܘܼܬܦܵܐ ܗܝܼ ܒܪܹܫܵܐ ܒ.

- ܙܵܘܝܼܬ݂ܵܐ ܕܟܠܬܵܐ ܡܫܘܼܬܦܵܐ ܗܝܼ ܡܢܵܬ݂ܵܐ ܒܣܪܛܵܐ ܐ ܒ⃖

- ܘܗܵܕܵܟ ܣܪ̈ܛܹܐ ܐ̱ܚܪ̈ܢܹܐ ܒ ܐ⃖، ܒ ܓ⃖

ܦܠܝܓ ܒܗܵܕܵܟ ܙܘܿܓܵܐ ܦܪܝܼܫܵܐ ܡܢ ܣܪܛܵܐ

ܡܫܘܼܬܦܵܐ ܒ ܓ⃖.

ܡܬܩܪܝܼܢ ܠܙܵܘܝܼܬ݂ܵܐ ܐ ܒ̂ ܓ، ܓ ܒ̂ ܕ ܙܵܘܝܼܬ݂ܵܐ ܦܫܝܼܛܵܐ

ܨܘܼܪܬ݂ܵܐ (٦ - ٢٨)

ܫܘܼܩ̈ܵܐ:

(١) ܒܨܘܼܪܬ݂ܵܐ (٦ ـ ٢٩)

ܙܵܘܝܼܬ݂ܵܐ ܐ ܒ̂ ܓ، ܓ ܒ̂ ܕ ܦܫܝܼܛܵܐ ܗܝܼ. ܠܡܵܢܐ؟

ܨܘܼܪܬ݂ܵܐ (٦ - ٢٩)

(٢) ܒܨܘܼܪܬ݂ܵܐ (٦ ـ ٣٠)

ܙܵܘܝܼܬ݂ܵܐ ܕ ܗ̂ ܘ، ܠ ܗ̂ ܐ ܟܠ ܦܫܝܼܛܵܐ ܗܝܼ. ܠܡܵܢܐ؟

ܨܘܼܪܬ݂ܵܐ (٦ - ٣٠)

(٣) ܒܨܘܼܪܬ݂ܵܐ (٦ ـ ٣١)

ܡܘܼܫܚܬ݂ܵܐ ܕܙܵܘܝܼܬ݂ܵܐ ܐ ܒ̂ ܠ

= ܡܘܼܫܚܬ݂ܵܐ ܕܙܵܘܝܼܬ݂ܵܐ + ܡܘܼܫܚܬ݂ܵܐ ܕܙܵܘܝܼܬ݂ܵܐ ܕ ܒ̂ ܠ

= °٩٠ + °٣٠ = °١٢٠.

ܨܘܼܪܬ݂ܵܐ (٦ - ٣١)

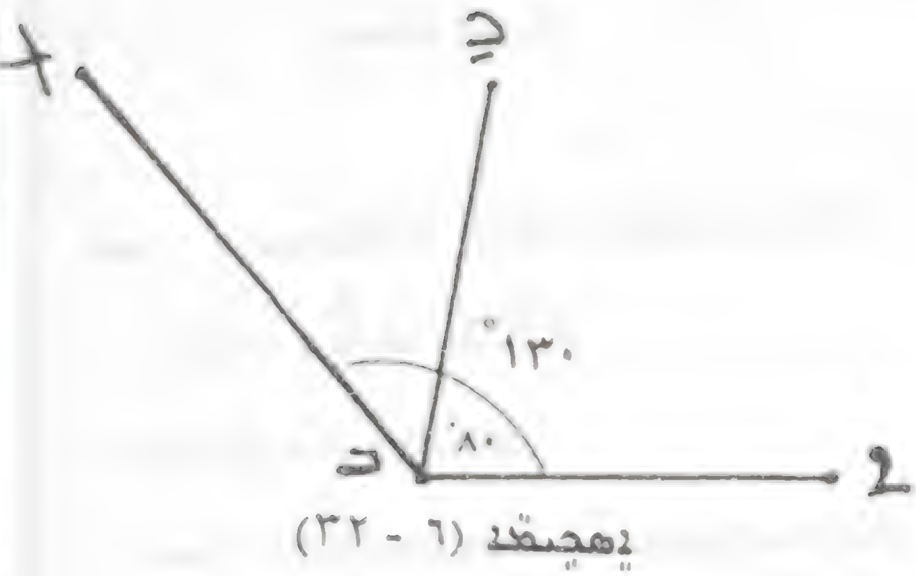
(٤) - ܒܨܘܪܬܐ (٦ - ٣٢)

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܕ ܒ ܓ

= ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܐ ܒ̂ ܓ

- ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܐ ܒ̂ ܕ

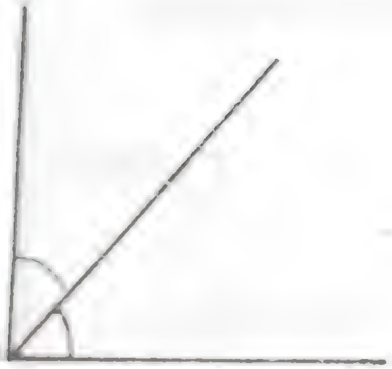
$= 130^\circ - 80^\circ = 50^\circ$

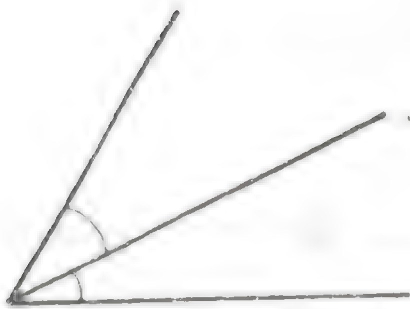


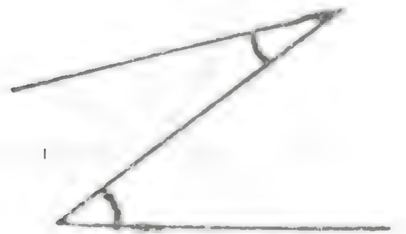
ܨܘܪܬܐ (٦ - ٣٢)

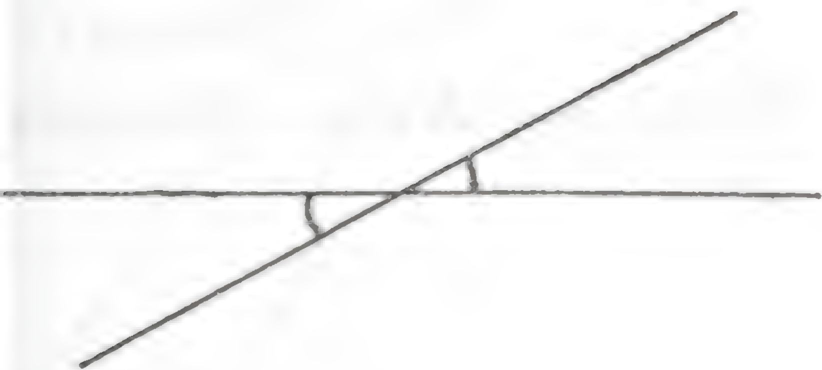
ܕܘܪܫܐ (٦ - ١٠)

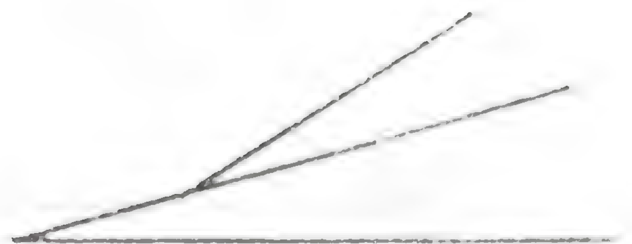
١ - ܡܝܩܪܐ ܝܠܘܦܐ/ ܠܦܘܬ ܙܘܝ̈ܬܐ ܫܘ̈ܝܬܐ ܒܟܠ ܨܘܪܬܐ ؟

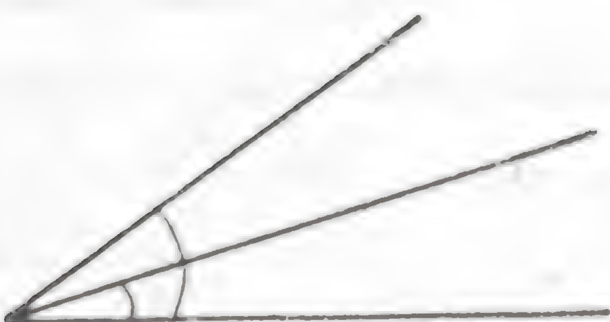


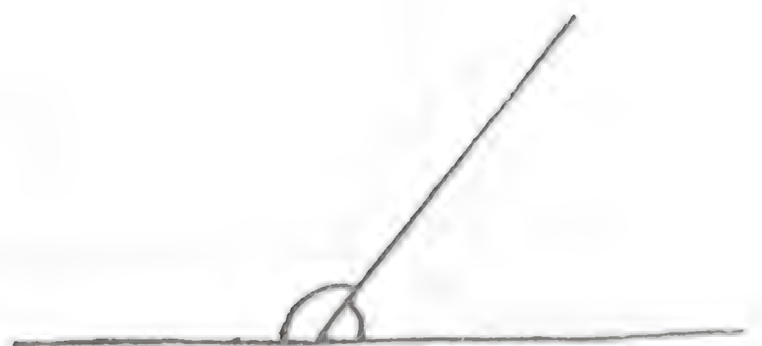












٢ ـ ܪܫܘܡ ܙܘܝܬܐ ܕܫܘܝܬܐ ܠܙܘܝܬܐ ܐ ܒ̂ ܓ

٣ ـ ܪܫܘܡ ܚܕ ܙܘܝ̈ܬܐ ܕܫܘܝ̈ܢ ܡܬܘܡܐ ܒܗܘܢ ܢܘܗܪܐ $\overline{ܓ ܕ}$

٤ ـ ܪܫܘܡ ܙܘܝܬܐ ܡܫܘܚܬܐ ٤٠° ܕܫܘܝܬܐ
ܠܙܘܝܬܐ ܐ ܒ̂ ܓ

٣٠°

٥ ـ ܐܫܟܚ ܡܫܘܚܬܐ ܕܙܘܝ̈ܬܐ ܬܚܬܝ̈ܐ (ܒܠܐ ܡܦܠܚܬܐ ܕܡܫܘܚܬܐ)

٢٠° ٤٠° ٣٥° ٩٠°

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܐ ܒ̂ ܕ = ☐

ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܕ ܗ̂ ܚ = ☐



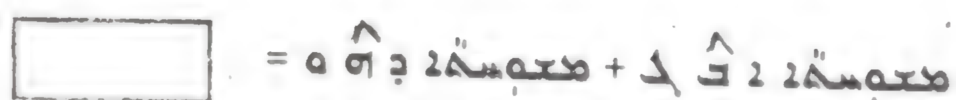
ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܒ ܝ̂ ܡ =



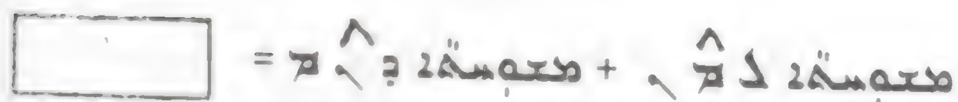
ܡܫܘܚܬܐ ܕܙܘܝܬܐ ܐ ܒ̂ ܓ =

٦ – ١ ١ ܙܘ̈ܝܬܐ ܡܫܬܠܡܢܝ̈ܬܐ

ܒܚܝܢ ܡܫܘܚܬܐ ܕܟܠ ܙܘܝܬܐ، ܒܬܪ ܐܚܕܝܢ ܟܘܢܫܐ ܕܡܫܘ̈ܚܝܬܐ ܕܟܠ ܙܘܓܐ ܡܢܗܘܢ :



ܡܫܘܚܬܐ ܐ ܒ̂ ܓ + ܡܫܘܚܬܐ ܕ ܗ̂ ܘ =



ܡܫܘܚܬܐ ܠ ܡ̂ ܢ + ܡܫܘܚܬܐ ܕ ܢ̂ ܡ =



ܡܫܘܚܬܐ ܫ ܝ̂ ܟ + ܡܫܘܚܬܐ ܟ ܝ̂ ܡ =



ܡܫܘܚܬܐ ܕ ܡ̂ ܘ + ܡܫܘܚܬܐ ܘ ܗ ܢ =

ܡܵܐ ܚܙܹܐ ܗܘܦܟ ؟

ܐ.. ܡܠܬܗ ܐܣܝܪܬܐ ܠܟܠ ܚܕ ܙܘܝܬܐ ܟܘܢܫܐ ܕܡܫܘܚܝܬܗܘܢ ١٨٠° ܒܫܡ ܙܘܝܬܐ ܡܫܠܡܢܝܬܐ

ܦܘܫܩܐ :

١ - ܐܸܣܟܹܡܵܐ (٦ - ٣٣) ܠܗܘܢ ܙܵܘܝܵܬܵܐ ܡܫܲܠܡܵܢܝܵܬܵܐ

ܐܝܟ ܕܟܘܢܫܐ ܕܡܫܘܚܝܵܬܗܘܢ

$= 40^\circ + 140^\circ$

$= 180^\circ$

140° 40°

ܐܸܣܟܹܡܵܐ (٦ - ٣٣)

٢ - ܐܸܣܟܹܡܵܐ (٦ - ٣٤) ܠܗܘܢ ܙܵܘܝܵܬܵܐ ܠܐ ܡܫܲܠܡܵܢܝܵܬܵܐ.

ܒܪܡ ܕܟܘܢܫܐ ܕܡܫܘܚܝܵܬܗܘܢ

$= 50^\circ + 110^\circ$

$= 160^\circ$

110° 50°

ܐܸܣܟܹܡܵܐ (٦ - ٣٤)

٣ - $\overleftrightarrow{ܐܒ}$ ، $\overleftrightarrow{ܓܗ}$ ܗܢܘܢ ܬܪܝܢ ܡܬܩܛܥܝܢ ܥܠ ܛ ، ܐܸܣܟܹܡܵܐ (٦ - ٣٥)

ܡܫܘܚܬܐ ܐ ܛ ܓ = ١٥٠°

ܐܫܟܚ ܡܫܘܚܬܐ ܕܟܠ ܚܕ :

ܗ ܛ̂ ܒ ، ܐ ܛ̂ ܗ.

ܓ 150° ܐ ܒ ܛ ܗ

ܐܸܣܟܹܡܵܐ (٦ - ٣٥)

ܫܪܝܐ :

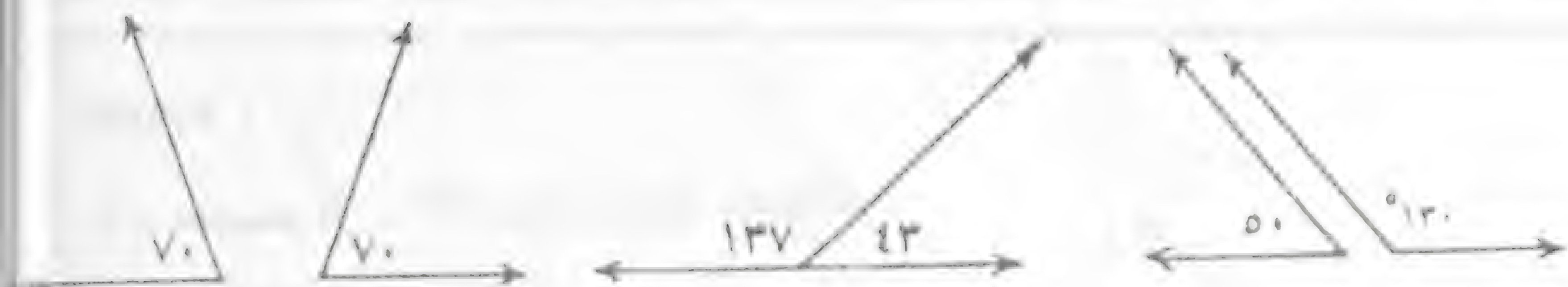
ܡܫܘܚܬܐ ܗ ܛ̂ ܒ = ܡܫܘܚܬܐ ܐ ܛ̂ ܓ (ܙܘܝܬܐ ܩܘܒܠܝܬܐ)

$= 150^\circ$

ܘ، ܡܫܘܚܬܐ ܐ ܛ̂ ܗ = ܡܫܘܚܬܐ ܓ ܛ̂ ܗ - ܡܫܘܚܬܐ ܐ ܛ̂ ܓ

= ١٨٠° (ܠܡܢܐ ؟) - ١٥٠° = ٣٠°

١ - ܚܘܝ/ܚܘܫܘܒ ܙܘܝ̈ܬܐ ܡܫܠܡܢܝ̈ܬܐ:



٢ - ܒܡܐ ܕܐܝܬ ܙܘܝ̈ܬܐ ܡܢ ܙܘܝ̈ܬܐ ܡܫܠܡܢܝ̈ܬܐ، ܐܝܟ ܡܚܘܫܒܐ ܕܙܘܝܬܐ ܐܚܪܬܐ ܒܡܕܡܐ ؟
:ܠܐ ܡܫܠܡܢܝܬܐ ܕܬܡܠܝܬܐ.





٣ - ܚܫܘܒ ܡܢ ܡܫܘܚܬܐ ܕܟܠ ܙܘܝܬܐ ܐܚܪܬܐ ܒܡܕܡܐ ؟







١٢ × ١ = ١٢ ٦ × ٢ = ١٢ ٤ × ٣ = ١٢

١ × ١٢ = ١٢ ٢ × ٦ = ١٢ ٣ × ٤ = ١٢

ܟܡܐ ܐܝܬ ܟܦܘܠܐ ܕܡܢܝܢܐ ١٢؟ ܚܙܝ ܕܐܝܟܢܐ ܡܫܬܚܠܦܐ ܕܟܦܘܠܐ ܕܡܢܝܢܐ ١٢؟

ܦܣܘܩܐ ܫܒܝܥܝܐ

ܡܢܝܢ̈ܐ ܘܡܫܘܚ̈ܬܐ

٧ - ١ ܡܢܝܢ̈ܐ ܙܘܓܢ̈ܝܐ ܘܡܢܝܢ̈ܐ ܦܪ̈ܕܝܐ

ܡܕܟܪܬܐ ܘܕܠܠܘܢ ܠܟܢܘܫܬܐ ܕܡܢܝܢ̈ܐ ٠، ١، ٢، ٤، ٥، ... ܕܩܪܝܢ ܠܗܝ (ܟܢܘܫܬܐ ܕܡܢܝܢ̈ܐ ܟܠܢ̈ܝܐ)

١٤ ، ٤٧، ١٨٥، ٣١٧٠، . . . . . ܡܢܝܢ̈ܐ ܟܠܢ̈ܝܐ

$\frac{١}{٢}$ ، $\frac{٤}{٣}$ ، ٥ $\frac{١}{٤}$ ، ١٨ $\frac{٢}{٣}$ ، . . . . . ܡܢܝܢ̈ܐ ܠܐ ܟܠܢ̈ܝܐ

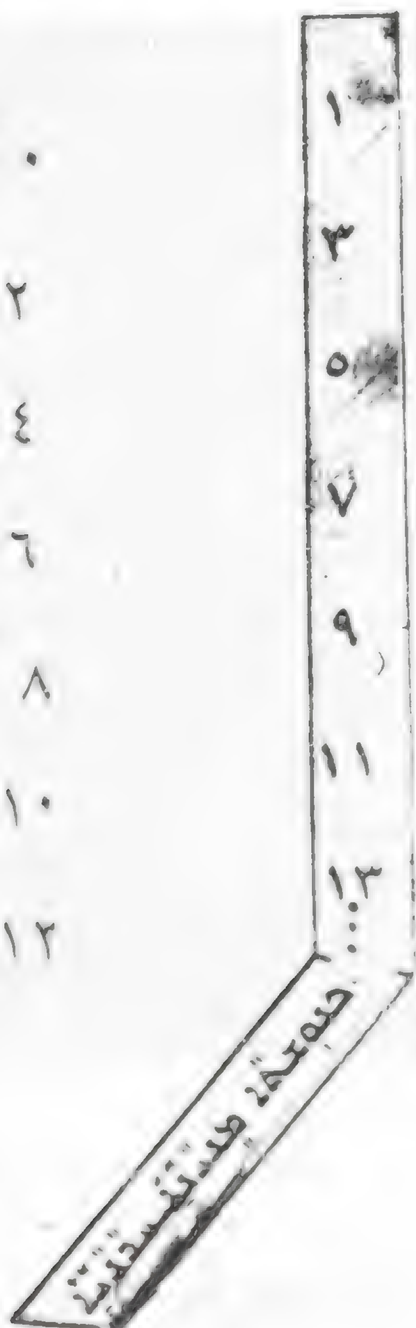
ܟܢܘܫܬܐ ܕܡܢܝܢ̈ܐ ܟܠܢ̈ܝܐ ܗܘܝܐ :

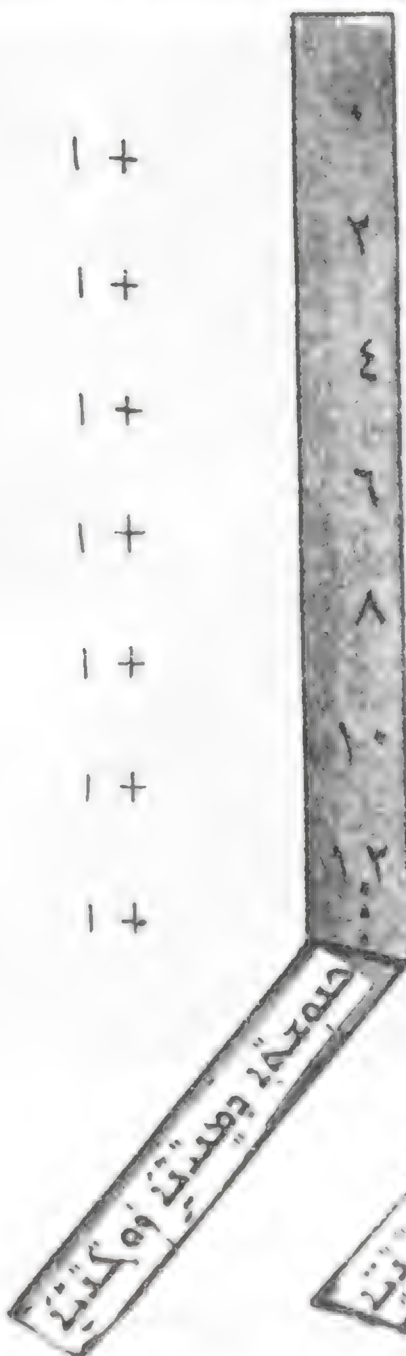
ܡܢܝܢ̈ܐ ܙܘܓܢ̈ܝܐ

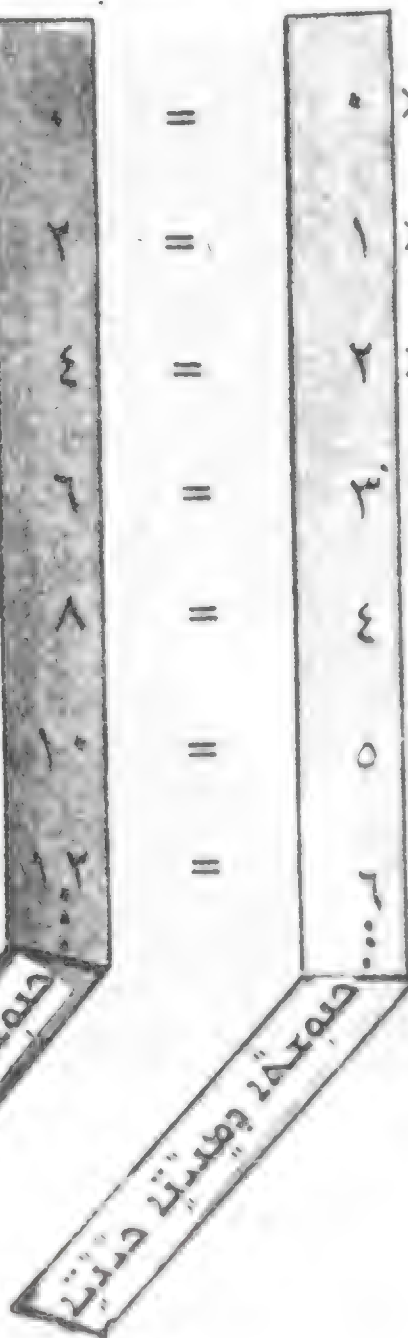
٠ ٢ ٤ ٦ ٨ ١٠ . . .

١ ٣ ٥ ٧ ٩ ١١ .

ܡܢܝܢ̈ܐ ܦܪ̈ܕܝܐ







ܗܘܝܐ ܕܟܘܦܠܐ ܡܢܝܢܐ ܒܡܢܝܢܐ X ٢ ܦܝܫ ܠܗ ܡܢܝܢܐ ܙܘܓܢܝܐ

ܘܗܘܝܐ ܕܟܘܢܫܐ ܕܡܢܝܢܐ ܙܘܓܢܝܐ ܘ ١ ܦܝܫ ܠܗ ܡܢܝܢܐ ܦܪܕܢܝܐ

ܟܘܢܫܐ ܕܡܢܝܢܐ ܙܘܓܢܝܐ ܗܘܝܐ :

٠ ، ٢ ، ٤ ، ٦ ، ٨ ، ١٠ ، ١٢ ، ١٤ ، ١٦ ، ١٨ ، ٢٠ ، ٢٢ .

ܣܘܦ ܕܟܠ ܡܢܝܢܐ ܗܢܢܐ ܦܪܝܫܝܗ ٠ ܐܘ ٢ ܐܘ ٤ ܐܘ ٦ ܐܘ ٨ ܐܝܬܘܗܝ ܡܢܝܢܐ ܙܘܓܢܝܐ .

ܘܟܘܢܫܐ ܕܡܢܝܢܐ ܦܪܕܢܝܐ ܗܘܝܐ :

١ ، ٣ ، ٥ ، ٧ ، ٩ ، ١١ ، ١٣ ، ١٥ ، ١٧ ، ١٩ ، ٢١ ، ٢٣ ، ٢٥ ، . .

ܣܘܦ ܕܟܠ ܡܢܝܢܐ ܗܢܢܐ ܕܦܪܝܫܝܗ ١ ܐܘ ٣ ܐܘ ٥ ܐܘ ٧ ܐܘ ٩ ܐܝܬܘܗܝ ܡܢܝܢܐ ܦܪܕܢܝܐ .

ܡܬܠܐ ܓܠܝܐ :

٥٨ ܡܢܝܢܐ ܗܢܢܐ ܦܪܝܫܝܗ ٨ ܐܝܬܘܗܝ ܡܢܝܢܐ ܙܘܓܢܝܐ

١٢١ ܡܢܝܢܐ ܗܢܢܐ ܦܪܝܫܝܗ ١ ܐܝܬܘܗܝ ܡܢܝܢܐ ܦܪܕܢܝܐ

٢٤٥٠ ܡܢܝܢܐ ܗܢܢܐ ܦܪܝܫܝܗ ٠ ܐܝܬܘܗܝ ܡܢܝܢܐ ܙܘܓܢܝܐ

١٨٦٤٩ ܡܢܝܢܐ ܗܢܢܐ ܦܪܝܫܝܗ ٩ ܐܝܬܘܗܝ ܡܢܝܢܐ ܦܪܕܢܝܐ

ܘܗܟܢܐ .

ܕܘܪܫܐ (٧ - ١)

ܓܡܘܪ ܠܚܘܫܒܢܐ ܟܠ ܚܕ ܕܢܝܐ ܘܡܢ ܒܬܪ ܠܡܘܢܐ.

(١) ٤	١٢	١٢٠	١١٨	٩٤٣
٨ +	٢٤ +	٢٨ +	٦٤٢ +	١٧٣٢ +

ܓܘܒܝܐ ܕܟܢܫ ܡܢܝܢܐ ܙܘܓܢܝܐ ܐܝܬܘܗܝ ܡܢܝܢܐ : ....

(٢) ٣ + ٧٠   ٢٥ + ٤١   ١٨١ + ٢١٩   ٣٢٣٧ + ٦٣٥

☐ ☐ ☐ ☐

ܚܘܼܫܵܒ̈ܐ ܕܟܢܵܫ ܡܸܢܝܵܢ̈ܐ ܚܕܵܢܵܝ̈ܐ ܒܝܼܠܹܗ ܡܸܢܝܵܢ̈ܐ : ....

(٣) ٣٠ + ٢١   ٥٣ + ٢٢   ١٣٧ + ٣١٦   ١٠٢٤ + ١٣٥   ٨٧٣٦ + ٤٢٦١

☐ ☐ ☐ ☐ ☐

ܚܘܼܫܵܒ̈ܐ ܕܟܢܵܫ ܡܸܢܝܵܢ̈ܐ ܥܡ ܚܕܵܢܵܝܐ ܘܥܸܣܪ̈ܵܢܵܝܐ ܘܡܐܵܬ̈ܢܵܝܐ ܒܝܼܠܹܗ ܡܸܢܝܵܢ̈ܐ : ....

(٤) ١٦ × ٢   ٣٢ × ٤   ٣٠ × ١٨   ٥٤ × ٣٦   ٥٠٤ × ٣٢٤

☐ ☐ ☐ ☐ ☐

ܗܘܼܢܵܓܵܐ ܕܚܘܼܫܵܒ̈ܐ ܡܸܢܝܵܢ̈ܐ ܘܥܸܣܪ̈ܵܢܵܝܐ X ܒܚܕܵܢܵܝ̈ܐ ܘܥܸܣܪ̈ܵܢܵܝܐ ܒܝܼܠܹܗ ܡܸܢܝܵܢ̈ܐ : ....

(٥) ٣ × ٧   ٢١ × ٩   ١٩ × ٢٣   ١٠٧ × ١٣   ٢١٥ × ٣٧

☐ ☐ ☐ ☐ ☐

ܗܘܼܢܵܓܵܐ ܕܚܘܼܫܵܒ̈ܐ ܕܡܸܢܝܵܢ̈ܐ ܚܕܵܢܵܝ̈ܐ X ܒܚܕܵܢܵܝ̈ܐ ܚܕܵܢܵܝ̈ܐ ܒܝܼܠܹܗ ܡܸܢܝܵܢ̈ܐ : ....

(٦) ١٤ × ٣   ١١ × ٨   ٢٥ × ١٢   ١٤٦ × ٢٧   ٣٩٤ × ١٢١

☐ ☐ ☐ ☐ ☐

ܗܘܼܢܵܓܵܐ ܕܚܘܼܫܵܒ̈ܐ ܕܟܢܵܫ ܡܸܢܝܵܢ̈ܐ ܥܡ ܘܥܸܣܪ̈ܵܢܵܝܐ ܘܚܕܵܢܵܝ̈ܐ ܚܕܵܢܵܝ̈ܐ ܒܝܼܠܹܗ : ....

(٧) ܚܫܘܿܒ ܠܟܠ ܡܸܢܝܵܢ̈ܐ ܘܥܸܣܪ̈ܵܢܵܝܐ ܡܚܲܒܪ̈ܐ ܕܗܘܵܘ ܡ̣ܢ ܐܪܒܥܐ ܕܡܟܝܠ.

(٨) ܟܬܘܒ ܘܚܘܝ ܡܢܝܢ̈ܐ ܙܘ̈ܓܝܐ ܡܫܘ̈ܚܐ ܕܗܘܝܢ ܡܢ ܫܒܥܐ ܕܡܢܝܢܐ.

(٩) ܟܬܘܒ ܬܪܝܢ ܡܢܝܢ̈ܐ ܙܘ̈ܓܝܐ ܡܫܘ̈ܚܐ ܕܗܘܝܢ ܡܢ ܬܠܬܐ ܕܡܢܝܢܐ.

(١٠) ܟܬܘܒ ܘܚܘܝ ܡܢܝܢ̈ܐ ܦܪ̈ܕܝܐ ܡܫܘ̈ܚܐ ܕܗܘܝܢ ܡܢ ܥܣܪܐ ܕܡܢܝܢܐ.

٧ ـ ٢ ܡܫܟܢܘܬܐ ܕܦܠܓܘܬܐ .

ܡܬܠ : ܡܫܟܢܘܬܐ ܕܦܠܓܘܬܐ ܥܠ ٢

٤٠ ÷ ٢ = ٢٠

٧٢ ÷ ٢ = ٣٦

١٢٤ ÷ ٢ = ٦٢

٣٣٦ ÷ ٢ = ١٦٨

١٤٥٨ ÷ ٢ = ٧٢٩

. . . . . .

ܕܗܟܢܐ ܝܠܗ ܣܘܓܐܐ ܕܡܢܝܢ̈ܐ ٤٠ ، ٧٢ ، ١٢٤ ، ٣٣٦ ، ١٤٥٨ ܡܢܝܢ̈ܐ ܙܘ̈ܓܝܐ ܐܢܐ

ܘܟܠܗ ܡܬܦܠܓܝ ܡܬܦܠܓܘܬܐ ܥܠ ٢

ܚܙܝ :

٣١ ÷ ٢ = ١٠ ܘܦܝܫܐ ١

٤٣ ÷ ٢ = ٢١ ܘܦܝܫܐ ١

١٢٥ ÷ ٢ = ٦٢ ܘܦܝܫܐ ١

٤٩٧ ÷ ٢ = ٢٤٨ ܘܦܝܫܐ ١

١٣٠٩ ÷ ٢ = ٦٥٤ ܘܦܝܫܐ ١

ܡܢܝܢ̈ܐ ٣١ ، ٤٣ ، ١٢٥ ، ٤٩٧ ، ١٣٠٩ ܡܢܝܢ̈ܐ ܦܪ̈ܕܝܐ ܘܟܠܗܘܢ ܠܐ ܡܬܦܠܓܝ ܡܬܦܠܓܘܬܐ

ܥܠ ٢ ܒܕ ܦܝܫܐ ܡܢ ܟܠܚܕ ܠܦܠܓܘܬܐ ܐܝܟ ܕܡܚܘܐ ܗܘܐ.

ܘܥܠ ܗܕܐ ܡܨܝܢ ܕܐܡܪܝܢ :

ܟܠ ܡܢܝܢܐ ܡܬܦܠܓܐ ܥܠ ٢ ܐ̄ܝܢܘ ܗܘܐ ܡܢܝܢܐ ܙܘܓܝܐ .   ܘܠܐ ܟܠ ܡܬܦܠܓܐ ܥܠ ٢ ܐ̄ܝܢܘ ܗܘܐ ܡܢܝܢܐ ܦܪܕܝܐ

ܬܘܪ̈ܓܡܐ :

ܡܢ ܠܡܢܝ̈ܢܐ ܕܐܬܝܢ . ܘܒܚܘܪ ܕܟܠܚܕ ܡܢܗܘܢ ܦܠܝܓ ܥܠ ٢ ܐܘ ܠܐ ܦܠܝܓ

٣٧٦ ، ٥ ٧٠٣ ، ١٢٩ ٣٧٢ ، ٩ ٧٥٤ ٠٩٨ ،

٧٥ ٠٠٠ ، ١٩٥ ٠٠٢ ، ١٥ ٢٧٣ ٠٩١ ، ٩٧ ٠٩٤ ٨٧٦

ܚܕ : ܡܫܟܚܘܬܐ ܕܦܠܓܘܬܐ ܥܠ ٣ ؛

ܒܢܘܗܪܐ ܕܡܚܙܝܬܐ ܕܗܘܝ̈ܬܐ ܕܦܠܓܘܬܐ ܝܕܥ ܡܫܟܚܘܬܐ ܕܦܠܓܘܬܐ ܕܡܢܝ̈ܢܐ ܕܐܬܝܢ ܥܠ ٣

ܡܢܝ̈ܢܐ	ܦܠܓܘܬܐ ܕܡܢܝ̈ܢܐ ܥܠ ٣	ܟܘܢ̈ܫܐ ܕܪ̈ܘܫܡܐ ܕܡܢܝ̈ܢܐ
١٢ ،	١٢ ÷ ٣ = ٤	٢ + ١ = ٣
١٥ ،	١٥ ÷ ٣ = ٥	٥ + ١ = ٦
٢٧ ،	٢٧ ÷ ٣ = ٩	٧ + ٢ = ٩
١١١ ،	١١١ ÷ ٣ = ٣٧	١ + ١ + ١ = ٣
٢٣٤ ،	٢٣٤ ÷ ٣ =	٤ + ٣ + ٢ = ٩
٣٢١ ،	٣٢١ ÷ ٣ =	١ + ٢ + ٣ = ٦
٦٣٤٢ ،	٦٣٤٢ ÷ ٣ =	٢ + ٤ + ٣ + ٦ = ١٥ ٥ + ١ = ٦ ،
٩١٤٦٧ ،	٩١٤٦٧ ÷ ٣ =	٧ + ٦ + ٤ + ١ + ٩ = [illegible]٧ ٧ + ٢ = ٩ ،
٩٤٤٩٥٢ ،	٩٤٤٩٥٢ ÷ ٣ =	٢+٥+٩+٤+٤+٩ = ٣٣ ٣ + ٣ = ٦ ،

ܩܐ ܡܘܕܝ ܗܘܝܬ ؟

ܐܦ ܡܫܟܚܬܘܢ ܠܡܦܠܓܐ ܕܝܢܐ :

ܟܠ ܡܢܝܢܐ ܦܠܓܘܬܐ ܥܠ ٣ ܐܝ، ܟܘܢܫܐ ܕܡܢܝܢܘ ܝܗܘܐ ܝܢ ܟܘܢܫܐ ܕܡܢܝܢܐ ܕܟܘܢܫܐ
ܕܢܦܩ ܥܠ ܟܘܢܫܐ ܕܡܢܝܢܐ) ٣ ܐܘ ٦ ܐܘ ٩

ܡܘܦܩܬܐ ܡܠܝܢܐ

ܚܙܝ ܡܢܝܢܐ ܕܦܠܓܘܬܐ ܥܠ ٣. ܘܚܙܝ ܐܝܟ ܡܢܝܢܘܬܐ ܕܟܘܢܫܐ ܕܡܢܝܢܐ ܕܦܠܓܘܬܐ
ܕܡܘܚܪܐ ܕܦܠܓܘܬܐ :

٢٥٢٣ ܟܠ ܦܠܓܘܬܐ ܥܠ ٣ ܗܘܝ : ١٢ = ٢ + ٥ + ٢ + ٣
٣ = ١ + ٢ ،

١٤٨٦٢ ܟܠ ܦܠܓܘܬܐ ܥܠ ٣ ܗܘܝ : ٢١ = ١ + ٤ + ٨ + ٦ + ٢
٣ = ٢ + ١ ،

٥١٦٤ ܠܐ ܟܠ ܦܠܓܘܬܐ ܥܠ ٣ ܗܘܝ : ١٦ = ٥ + ١ + ٦ + ٤
٩ ܐܘ ٦ ܐܘ ٣ ≠ ٧ = ١ + ٦ ،

٨٤١
٣ | ٢٥٢٣
٢٤
١٢
١٢
٠٠٣
٣

١٧٢١
٣ | ٥١٦٤
٣
٢١
٢١
٠٠٦
٦
٠٤
٣
١

٤٩٥٤
٣ | ١٤٨٦٢
١٢
٢٨
٢٧
١٦
١٥
١٢
١٢
٠٠

ܦܬܓܡܐ ١

ܡܠܬܐ : ܡܬܦܠܓܢܘܬܐ ܕܡܢܝܢܘܬܐ ܥܠ ٥ ܘܥܠ ١٠

ܚܙܝ ܒܢܩܕܐ ܕܬܘܟܠܐ ܕܡܢܝܢܘܬܐ ܥܠ ܗܢܐ ܕܠܬܚܬ :

٢٥ ÷ ٥ = ٥

٤٠ ÷ ٥ = ٨

١٢٥ ÷ ٥ = ٢٥

٦٧٥ ÷ ٥ = ☐

١٢٥٠ ÷ ٥ = ☐

٦٠٠٠ ÷ ٥ = ☐

٤٧٦١٥ ÷ ٥ = ☐

٢٧ ÷ ٥ = ٥ ܘܫܪܟܐ ٢

٤٣ ÷ ٥ = ٨ ܘܫܪܟܐ ٣

١٢١ ÷ ٥ = ٢٤ ܘܫܪܟܐ ☐

٧٧٦ ÷ ٥ = ☐ ܘܫܪܟܐ ☐

١٠٣٩ ÷ ٥ = ☐ ܘܫܪܟܐ ☐

٤٥٢٦١ ÷ ٥ = ☐ ܘܫܪܟܐ ☐

ܡܢܐ ܚܙܝܬ ܗܫܐ ؟

ܢܐܐ ܡܚܝܠܘܬ ܠܡܠܬܐ ܕܠܬܚܬ :

> ܡܢܝܢܐ ܡܠܬܐ ܥܠ (٥) ܐܢ ܕܗܘܐ ܚܪܬܝܐ (٥) ܐܘ (٠)

ܡܢܝܢܐ :

١٠، ٢٠، ٣٠، ٤٠، ٥٠، ٦٠، ٧٠، ٨٠، ٩٠، ١٠٠، ١١٠، . . .

ܚܡܫܐ ܕܡܢܝ̈ܢܐ ܕܝܗܒܐ ، ܐܝܢ ܒܦܠܓܐ ܦܠܝܓܘܬܐ ܥܠ ١٠
ܘܠܗܘܝܐ :

ܟܠ ܡܢܝܢܐ ܦܠܝܓܘܬܐ ܥܠ (١٠) ܐܢ ܚܕ̈ܢܝܗ ܗܘܝܐ (٠)

ܒܘܬܪܐ ܐܚܪܢܐ ܠܦܠܓܐ ܫܪܝܪܐ :
ܡܢܝܢܐ ܕܣܝܡܐ ܒܟܠܗ ܡܢܝ̈ܢܐ ܘܐܚܪ̈ܢܐ ܗܢܐ (ܠܡܬܠ) ܘܐܝܢ ܒܦܠܓܐ ܦܠܝܓܘܬܐ ܥܠ ٢ (ܠܡܬܠ
:)
ܘܟܠܗ ܡܢܝܢܐ ܦܠܓܐ ܦܠܝܓܘܬܐ ܥܠ ٥ (ܠܡܬܠ) ܗܘܝܐ ܒܦܠܓܐ ܦܠܝܓܘܬܐ ܥܠ ٢ × ٥
= ١٠

ܡܬܠܐ (١)

ܒܚܘܢ ܡܢ ܫܘܬܦܘܬܐ ܕܦܠܝܓܘܬܐ ܕܡܢܝܢܐ ٢٥٩٥ ܥܠ ٢ ، ٥ ، ١٠

ܫܪܝܐ :

ܡܢܝܢܐ ٢٥٩٥ ܡܢܝܢܐ ܚܕ̈ܢܐ ܗܘܐ ܕܚܕ̈ܢܝܗ ٥
ܡܛܠ ܠܐ ܟܠ ܡܢܝܢܐ ٢٥٩٥ ܦܠܝܓܘܬܐ ܥܠ ٢
ܚܕ̈ܢܐ ܕܡܢܝܢܐ ٢٥٩٥ ܝܠܗ ٥
ܡܛܠ ܟܠ ܡܢܝܢܐ ٢٥٩٥ ܦܠܝܓܘܬܐ ܥܠ ٥
ܚܕ̈ܢܐ ܕܡܢܝܢܐ ٢٥٩٥ ܠܐ ܝܠܗ (٠)
ܡܛܠ ܠܐ ܟܠ ܡܢܝܢܐ ٢٥٩٥ ܦܠܝܓܘܬܐ ܥܠ ١٠

ܡܬܠܐ
ܒܚܘܢ ܡܢ ܫܘܬܦܘܬܐ ܕܦܠܝܓܘܬܐ ܕܡܢܝܢܐ ٣٢٧ ܥܠ ٢ ، ٣ ، ٥

ܫܪܝܐ :

ܡܢܝܢܐ ٣٢٧ ܡܢܝܢܐ ܚܕ̈ܢܐ (ܠܡܬܠ) ܘܗܘ ܠܐ ܟܠ ܦܠܝܓܘܬܐ ܥܠ ٢
ܘܟܢܫܐ ܕܚܘܫܒܐ ܕܡܢܝ̈ܢܐ = ٧ + ٢ + ٣ = ١٢
، ٢ + ١ = ٣

ܗ̇ܕܟܐ ܘܒܝܚ ܡܢܝܢܐ ٣٢٧ ܩܒܝܠ ܦܠܝܓܘܬܐ ܥܠ ٣

ܡܛܠ ܕܟܡܐ ܕܡܢܝܢܐ = ٧ ≠ ٠ ܐܘ ٥ ܡܢܝܢܐ ܠܐ ܩܒܝܠ ܦܠܝܓܘܬܐ ܥܠ ٥

ܡܬܠܐ

ܒܚܘܢ ܡܫܘܕܥܢܘܬܐ ܕܦܠܝܓܘܬܐ ܕܡܢܝܢܐ ٣٥٤٠ ٢ ، ٣ ، ٥ ، ٦ ، ١٠

ܫܪܝܐ:

ܡܢܝܢܐ ٣٥٤٠ ܐܝܬܘܗܝ ܡܢܝܢܐ ܙܘܓܢܝܐ (ܠܡܢܐ؟) ܗ̇ܘ ܩܒܝܠ ܦܠܝܓܘܬܐ ܥܠ ٢

ܟܡܝܘܬܐ ܕܦܘܫܩܐ ܕܡܢܝܢܐ = ٠ + ٤ + ٥ + ٣ = ١٢

، ٢ + ١ = ٣ ، ܗ̇ܘ ܩܒܝܠ ܦܠܝܓܘܬܐ ܥܠ ٣

ܡܢܝܢܐ ٣٥٤٠ ܩܒܝܠ ܦܠܝܓܘܬܐ ܥܠ ٦ ܒܓܘ ܕܩܒܝܠ ܦܠܝܓܘܬܐ ܥܠ ܟܠ ܚܕ ٢ ، ٣

ܚܪܝܐ ܕܡܢܝܢܐ ٣٥٤٠ ܐܝܬܘܗܝ (٠)، ܗ̇ܘ ܒܩܒܝܠ ܦܠܝܓܘܬܐ ܥܠ ܟܠ ܚܕ ١٠ ، ٥

ܕܘܪܫܐ (٧ – ٢)

ܐܝܢܘ ܡܢܝܢܐ ܕܗܠܝܢ ܩܒܝܠ ܦܠܝܓܘܬܐ ܥܠ ٢ ܘܐܝܢܘ ܩܒܝܠ ܦܠܝܓܘܬܐ ܥܠ ٣ ܘܐܝܢܘ ܩܒܝܠ ܦܠܝܓܘܬܐ ܥܠ ܬܪܘܝܗܘܢ ܡܚܕܕܐ :

(١) ٣٢	(٢) ٤٠	(٣) ٤٥	(٤) ٢٩٣
(٥) ١٥٠	(٦) ٨٠١٢	(٧) ٢٠٥٣٨	(٨) ١٤٠٢٣

ܒܚܘܢ ܡܫܘܕܥܢܘܬܐ ܕܦܠܝܓܘܬܐ ܕܟܠ ܚܕ ܡܢܝܢܐ ܕܗܠܝܢ ܥܠ ٢ ، ٣ ، ٥ ، ١٠

(٩) ١٥	(١٠) ٣٠	(١١) ٤٧	(١٢) ٧٥
(١٣) ٢١٦	(١٤) ٨٢٠	(١٥) ٣١٥٠	(١٦) ١١٠١٠

ܡܠܝ/ܫܠܡ ܦܘܫܩܐ ܘܡܢܝܢܐ ܚܕܐ ܕܗܠܝܢ :

(١٧) ܩܒܝܠ ܡܢܝܢܐ ١٩٨٢ ܦܠܝܓܘܬܐ ܥܠ ٣

(١٨) ܩܒܝܠ ܡܢܝܢܐ ٩٥٠ ܦܠܝܓܘܬܐ ܥܠ ٣

(١٩) ܩܒܝܠ ܡܢܝܢܐ ٥٩١ ܦܠܝܓܘܬܐ ܥܠ ٣

٢٠) ܦܪܘܫ ܡܢܝܢ̈ܐ ٢٠٠ . . . ١٠٠٠ ܦܠܝܓܘܬܐ ܥܠ ٢ ܘܦܪܘܫ ܦܠܝܓܘܬܐ ܥܠ ٣

٢١) ܦܪܘܫ ܡܢܝܢ̈ܐ ١٢٥ . . ١٠٠ ܦܠܝܓܘܬܐ ܥܠ ܟܠ ܚܕ ܡܢ ٣ ، ٥

٢٢) ܟܬܘܒ ܘܚܕܐ ܡܢܝܢ̈ܐ ܡܫܟܚ̈ܐ ܕܡܬܪܟܒܝܢ ܡܢ ܐܠܦ̈ܐ ܕܪܡܫܐ ܩܕܡܝܐ ܘܦܪܘܫ ܦܠܝܓܘܬܐ ܥܠ ٢ ،٥ ܒܚܕ ܙܒܢܐ.

٢٣) ܟܬܘܒ ܬܪܝܢ ܡܢܝܢ̈ܐ ܡܫܟܚ̈ܐ ܕܡܬܪܟܒܝܢ ܡܢ ܐܠܦ̈ܐ ܕܪܡܫܐ ܩܕܡܝܐ ܘܦܪܘܫ ܦܠܝܓܘܬܐ ܥܠ ٣ ،٥ ܒܚܕ ܙܒܢܐ.

٢٤) ܕܝܠܐ ܐܚܪܢܝܐ ܕܡܘܢܕܥܐ ܕܦܠܝܓܘܬܐ ، ܕܐܝܬ ܦܠܝܓܘܬܐ ܕܟܠ ܡܢ ܡܢܝܢ̈ܐ ܕܠܬܚܬ ܥܠ ٣ :

ܐ) ٣٤٢ ܒ) ٥٢٦ ܓ) ١٤٠٢٥

ܕ ٢٢٣٦ ܗ) ١٢ ٢٣٦ ܘ) ١٣٥ ١٢٦ .

(٧ ـ ٣) ܦܠܓܘ̈ܬܐ ، ܦܠܓܘ̈ܬܐ ܡܫܘܬܦ̈ܬܐ ܪ̈ܒܬܐ

ܢܚܙܐ : ١٢ = ٣ × ٤ ، ܗܟܘ ܘܕܟܘܢ

٣ ܦܠܓܘ̈ܬܐ ܝܠܗ ܡܢ ܦܠܓܘ̈ܬܐ ܕܡܢܝܢܐ ١٢

٤ ܦܠܓܘ̈ܬܐ ܝܠܗ ܡܢ ܦܠܓܘ̈ܬܐ ܕܡܢܝܢܐ ١٢

ܘܕܟܘܢ ١٢ = ٢ × ٦ ، ١٢ = ١ × ١٢ ܗܟܢܐ ܘܕܟܘܢ

٢ ܦܠܓܘ̈ܬܐ ܝܠܗ ܡܢ ܦܠܓܘ̈ܬܐ ܕܡܢܝܢܐ ١٢

٦ ܦܠܓܘ̈ܬܐ ܝܠܗ ܡܢ ܦܠܓܘ̈ܬܐ ܕܡܢܝܢܐ ١٢

١٢ ܦܠܓܘ̈ܬܐ ܝܠܗ ܡܢ ܦܠܓܘ̈ܬܐ ܕܡܢܝܢܐ ١٢

١ ܦܠܓܘ̈ܬܐ ܝܠܗ ܡܢ ܦܠܓܘ̈ܬܐ ܕܡܢܝܢܐ ١٢

ܗܟܘ ܘܕܟܘܢ ܟܠܗܘܢ ܦܠܓܘ̈ܬܐ ܕܡܢܝܢܐ ١٢ ܐܢܝܢܐ : ١ ، ٢ ، ٣ ، ٤ ، ٦ ، ١٢

ܡܢ ܕܡܢܝܢܐ ١٢ ܦܠܝܓܘܬܐ ܥܠ ١ ، ٢ ، ٣ ، ٤ ، ٦ ، ١٢

ܘܐܦ ܗܟܘܬܐ ܡܢܝܢܐ ١٥ ܦܠܝܓܘܬܐ ܥܠ ܟܠ ܚܕ ܡܢ ١ ، ٣ ، ٥ ، ١٥

ܗܘܝܐ ܟܢܘܫܬܐ ܕܦܠܓܘܬܐ ܕܡܢܝܢܐ ١٥ ܟܢܘܫܬܐ ܕܡܢܝܢܐ ١ ، ٣ ، ٥ ، ١٥
ܘܗܟܢܐܝܬ :

ܟܢܘܫܬܐ ܕܦܠܓܘܬܐ ܕܡܢܝܢܐ ܐܝܬܝܗ̇ ܠܟܠܗ ܡܢܝܢܐ ܟܝܢܝܐ ܕܟܠ ܦܠܓܘܬܐ ܕܝܠܗ

ܘܗ̈

ܟܢܘܫܬܐ ܕܦܠܓܘܬܐ ܕܡܢܝܢܐ ܝܠܗ̇ ܟܢܘܫܬܐ ܕܦܠܓܘܬܐ ܕܗ̇ܘ ܡܢܝܢܐ.

ܦܘܫܩܐ (١)

ܐܝܟ ܦܠܓܘܬܐ ܕܟܠ ܚܕ ܡܢ ٢٠ ، ١٨ ܘܡܢ ܒܬܪ ܐܝܟ ܟܢܘܫܬܐ ܕܦܠܓܘܬܐ ܡܫܘܬܦܬܐ ܒܝܢܬܝܗܘܢ ܒܝܕ
ܡܫܘܬܠܬܐ ܕܟܢܘܫܬܐ.

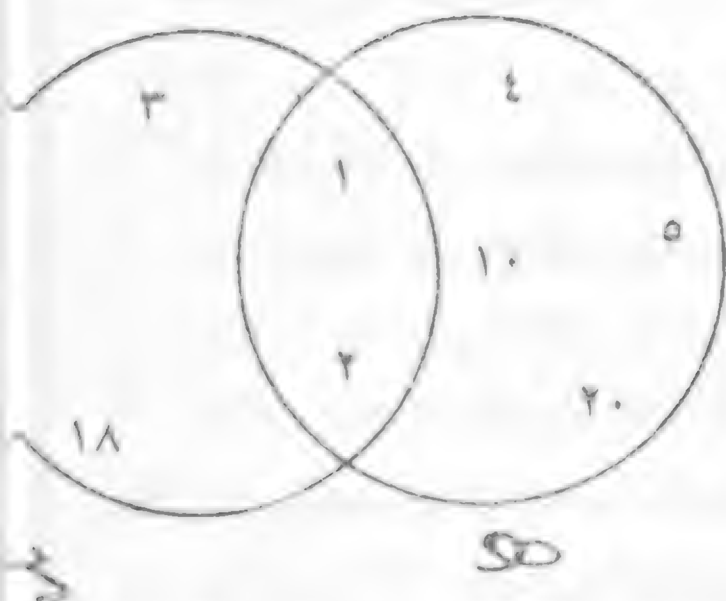
ܫܪܝܐ:

ܡܢܝܢܐ ٢٠ ܐܝܬ ܠܗ ܦܠܓܘܬܐ ١ ، ٢ ، ٤ ، ٥ ، ١٠ ، ٢٠

ܡܢܝܢܐ ١٨ ܐܝܬ ܠܗ ܦܠܓܘܬܐ ١ ، ٢ ، ٣ ، ٦ ، ٩ ، ١٨

ܗܫܐ ܘܡܢ ܟܢܘܫܬܐ ܕܦܠܓܘܬܐ ܡܫܘܬܦܬܐ ܕܬܪܘܝܗܘܢ ܡܢܝܢܐ ٢٠ ، ١٨ ܝܢܐ ١ ، ٢

ܘܡܫܘܬܠܬܐ ܡܚܘܝܐ ܐܝܟ ܗܟܢܐ ܒܟܢܘܫܬܐ :
ܟܢܘܫܬܐ ܕܦܠܓܘܬܐ ܕܡܢܝܢܐ ٢٠ ܕܝܠܗ̇ ܣ
ܘܟܢܘܫܬܐ ܕܦܠܓܘܬܐ ܕܡܢܝܢܐ ١٨ ܕܝܠܗ̇ ܨ
ܟܢܘܫܬܐ ܕܦܠܓܘܬܐ ܡܫܘܬܦܬܐ ܕܝܠܗ̇ ܟܢܘܫܬܐ ܣ ∩ ܨ



ܡܫܘܬܠܬܐ ܕܠܥܠ. ܦܠܓܘܬܐ ܝܠܗ̇ ܪܒܬܐ ܕܟܠ ܦܠܓܘܬܐ ܡܫܘܬܦܬܐ ܕܬܪܘܝܗܘܢ ܡܢܝܢܐ ٢٠ ،
١٨ ܝܠܗ ܡܢܝܢܐ ٢.

ܟܠ ܡܢܝܢܐ ܒܟܢܘܫܬܐ ܕܦܠܓܘܬܐ ܡܫܘܬܦܬܐ ܠܥܠ ܡܢܝܢܐ ܐܝܟ ܗܕܐ ܦܠܓܘܬܐ ܡܫܘܬܦܬܐ ܪܒ…

ܘܟܝܬ ܩܪܝܬܐ ܝܠܗ ܒܩܘܪܒܐ : ܦ . ܡ . ܪ .

ܡܬܠܐ (٢)

...ܦܠܘܓܐ ܡܫܘܬܦܐ ܪܒܐ ܠܡܢܝܢܐ ١٨ ، ٢٤

...ܕܪܐ :

ܣܘܟܡܐ ܕܦܠܘܓܐ ܕܡܢܝܢܐ ١٨ ܝܠܗ ܣܘܟܡܐ ܕܡܢܝܢܐ ١ ، ٢ ، ٣ ، ٦ ، ٩ ، ١٨

ܘܣܘܟܡܐ ܕܦܠܘܓܐ ܕܡܢܝܢܐ ٢٤ ܝܠܗ ܣܘܟܡܐ ܕܡܢܝܢܐ ١ ، ٢ ، ٣ ، ٤ ، ٦ ، ٨ ، ١٢ ، ٢٤

ܣܘܟܡܐ ܕܦܠܘܓܐ ܡܫܘܬܦܐ ܝܠܗ ܣܘܟܡܐ ܕܡܢܝܢܐ ١ ، ٢ ، ٣ ، ٦

...ܕ ܪܒܐ ܦܠܘܓܐ ܝܠܗ ܡܢܝܢܐ ٦

ܦ . ܡ . ܪ . ܕܬܪܘܬܗܘܢ ܡܢܝܢܐ ١٨ ، ٢٤ ܝܠܗ ٦

ܕܘܪܫܐ (٣ - ٧)

...ܦܠܘܓܐ ܕܟܠ ܚܕ :

(١) ٩	(٢) ١٢	(٣) ١٧	(٤) ٢٧
(٥) ٣٢	(٦) ٤٥	(٧) ١	(٨) ٤٩

ܡܠܝ ܗܕܐ ܕܪܫܐ :

(٩) ܐܝܬܠܗܘܢ ܕܣܘܟܡܐ ܕܦܠܘܓܐ ܕܡܢܝܢܐ ١٥ ܝܠܗ ١ ، ٣ ، ٥ ، ١٥

ܐܝܬܠܗܘܢ ܕܣܘܟܡܐ ܕܦܠܘܓܐ ܕܡܢܝܢܐ ٢٥ ܝܠܗ ١ ، ٥ ، ٢٥

ܦ . ܡ . ܪ . ܠܡܢܝܢܐ ١٥ ، ٢٥ ܝܠܗ : ☐

(١٠) ܣܘܟܡܐ ܕܦܠܘܓܐ ܕܡܢܝܢܐ ١٠ ܚܕܟܡܐ ܐܝܬܠܗܘܢ :

ܘܣܘܟܡܐ ܕܦܠܘܓܐ ܕܡܢܝܢܐ ٢٠ ܚܕܟܡܐ ܐܝܬܠܗܘܢ :

ܦ . ܡ . ܪ . ܠܡܢܝܢܐ ١٠ ، ٢٠ ܝܠܗ : ☐

(١١) ܦܠܘܓܐ ܕܡܢܝܢܐ ٢٨ ܝܢܐ :

. . . .

ܘܦܠܘܓܐ ܕܡܢܝܢܐ ٣٠ ܝܢܐ :

ܦ . ܡ . ܪ . ܠܬܪܘܬܗܘܢ ܡܢܝܢܐ = ☐

(١٢) ܡܟܦܠܬ̈ܐ ܕܡܢ̈ܝܢܐ ٢١ ܗܢܘܢ : ....

ܘܡܟܦܠܬ̈ܐ ܕܡܢ̈ܝܢܐ ٢٢ ܗܢܘܢ : ....

ܩ . ܡ . ܪ ܠܗܕܡܘܬܐ ܡܢ̈ܝܢܐ = ☐

ܟܬܘܒ ܡܢ ܕܡܟܝܐ ܕܗܘܐ ܡܟܦܠܬ̈ܐ ܠܡܢ̈ܝܢܐ ܕܒܬܪܐ :

(١٣) ٥ ؛ ١ ، ٢ ، ٣ ، ٤ ، ٥

(١٤) ٨ ؛ ١ ، ٢ ، ٣ ، ٤ ، ٨

(١٥) ٢٥ ؛ ١ ، ٢ ، ٣ ، ٤ ، ٥ ، ٢٥

(١٦) ٢٨ ؛ ١ ، ٢ ، ٣ ، ٤ ، ٦ ، ٧ ، ١٢ ، ١٤ ، ٢٨

(١٧) ٤٤ ؛ ١ ، ٢ ، ٣ ، ٤ ، ٨ ، ١١ ، ١٢ ، ٢٢ ، ٤٤

(ܡܟܝܐ ܕܐܘܪܝܬܐ ܠܡܟܦܠܬ̈ܐ ܕܗܘܟܕܡܘܬ̈ܐ ܕܡܠܝܠܘܬ̈ܐ ܐܝܟ ܕܩܕܡ)

ܟܬܘܒ ܡܟܦܠܬ̈ܐ ܕܟܠ ܚܕ ܡܢ ܗܕܡܘܬܐ ܡܢ̈ܝܢܐ ، ܘܡܢ ܒܬܪ ܚܘܫܒܐ ܕܡܟܦܠܬ̈ܐ ܡܫܘܬܦ̈ܐ ܐܝܟ ܡܫܘܚܬܐ
ܕܡܢ̈ܝܢܐ :

(١٨) ١٢ ، ١٨ (١٩) ١٥ ، ٤٥ (٢٠) ٣٢ ، ٢٤ .

ܐܫܟܚ ܩ . ܡ . ܪ ܠܟܠ ܙܘܓܐ ܡܢ ܡܢ̈ܝܢܐ ܕܐܬܝܢ :

(٢١) ٣ ، ٦ (٢٢) ٧ ، ٤ (٢٣) ١٢ ، ١٦

(٢٤) ١٥ ، ٣٠ (٢٥) ٤٠ ، ٢٥ (٢٦) ٢٠ ، ٤٨

ܦܫܘܩ ܠܡܢܐ ܕܐܬܐ :

(٢٧) ܡܢ ܐܝܠܝܢ ܡܢ̈ܝܢܐ ܕܡܟܝܐ ܗܘܐ ܡܟܦܠܬ̈ܐ ܠܟܠ ܡܢ̈ܝܢܐ؟

(٢٨) ܡܢ ܐܝܠܝܢ ܡܢ̈ܝܢܐ ܕܠܐ ܡܟܝܐ ܗܘܐ ܡܟܦܠܬ̈ܐ ܠܟܠ ܚܕ ܡܢ̈ܝܢܐ؟

(٢٩) ܡܢ ܐܝܠܝܢ ܡܢ̈ܝܢܐ ܕܐܝܬ ܠܗ ܚܕ ܡܟܦܠܬܐ ܒܠܚܘܕ.

(٣٠) ܕܟܘܪ ܡܢ̈ܝܢܐ ܕܐܝܬ ܠܗ ܬܪܬܝܢ ܡܢ ܗܕܡ ܡܟܦܠܬ̈ܐ (ܦܪ̈ܝܫܐ) ܒܠܚܘܕ .

٧ ـ ٤ ܡܢܘ̈ܬܐ ܩܕܡܝ̈ܐ

١ ܐܝܬ ܠܗ ܒܠܚܘܕ ܚܕ ܡܢܘ̈ܬܐ ܕܝܠܗ ١

٢ ܐܝܬ ܠܗ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٢

٣ ܐܝܬ ܠܗ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٣

٤ ܐܝܬ ܠܗ ܬܠܬ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٢ ، ٤

٥ ܐܝܬ ܠܗ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٥

٦ ܐܝܬ ܠܗ ܐܪܒܥ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٢ ، ٣ ، ٦

٧ ܐܝܬ ܠܗ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٧

٨ ܐܝܬ ܠܗ ܐܪܒܥ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٢ ، ٤ ، ٨

٩ ܐܝܬ ܠܗ ܬܠܬ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٣ ، ٩

١٠ ܐܝܬ ܠܗ ܐܪܒܥ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٢ ، ٥ ، ١٠

١١ ܐܝܬ ܠܗ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ١١

١٣ ܐܝܬ ܠܗ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ١٣

١٧ ܐܝܬ ܠܗ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ١٧

١٩ ܐܝܬ ܠܗ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ١٩

٢٣ ܐܝܬ ܠܗ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٢٣

٢٩ ܐܝܬ ܠܗ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܕܗ̈ܢܝܢ ١ ، ٢٩

ܗܘܝ ܕܝܢ ܡܢܝ̈ܢܐ ܡܢ ܡܢܝܢܐ: ٢ ، ٣ ، ٥ ، ٧ ، ١١ ، ١٣ ، ١٧ ، .....

ܐܝܬ ܠܗ ܢܘܒܗܢ ܡܢ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܕܗ̈ܢܝܢ ܚܕ ܘܡܢܝܢܐ ܗܘ ܗܘ.

ܟܠ ܡܢܝܢܐ ܠܡܢܝ̈ܢܐ ܕܐܝܬ ܠܗ ܢܘܒܗܢ ܡܢ ܬܪ̈ܬܝܢ ܡܢܘ̈ܬܐ ܦܫܝ̈ܛܬܐ ܒܠܚܘܕ (ܚܕ ܘܡܢܝܢܐ ܗܘ ܗܘ) ܡܢܝ̈ܢܐ ܩܕܡܝ̈ܐ.

ܬܡܪ̈ܝܢܐ:

١ ܟܠ ܡܢܝܢ ܡܢܝ̈ܢܐ ܩܕܡܝ̈ܐ ܕܐܝܬ ܠܗ ܚܕ ܡܢܘ̈ܬܐ ܒܠܚܘܕ ܕܝܠܗ ١

١٢٤ ܟܠ ܡܢܝܢ ܡܢܝ̈ܢܐ ܩܕܡܝ̈ܐ ܕܗܘ ܡܢܝܢ ܦܠܝܓܘܬܐ ܥܠ ٢

٤٣ ܡܢܝܢܐ ܦܪܝܫܐ ܕܝܠܗ ܠܐ ܐܝܬ ܡܦܠܓܢܘܬܐ ܐܚܪܢܐ ܐܠܐ ١ ، ٤٣ (ܚܕܐ ܡܢ ܕܝܠܗ)
٢٣١ ܠܐ ܗܘܐ ܡܢܝܢܐ ܦܪܝܫܐ ܕܝܠܗ ܐܝܬ ܡܦܠܓܢܘܬܐ ܐܠܐ ٣ ܡܛܠ ١ + ٣ + ٢ = ٦

ܡܫܕܪܢܘܬܐ
ܦܝܫ ܕܐܡܪܝܬ ܠܬܠܡܝܕܐ ܡܫܚܠܦܬܐ ܒܟܬܒܐ ܕܡܘܩܕܐ ܠܒܪܢܐ ܠܡܢܝܢܐ ܦܪܝܫܐ ܡܢ ١
ܗܠ ١٠٠

ܕܘܪܫܐ (٧ - ١٤)

ܦܝܫ ܡܢܝܢܐ ܦܪܝܫܐ ܐܝܢܐ ܕܐܠܗ :

١٥ (١)	٢١ (٢)	٣١ (٣)	٣٣ (٤)
٧١ (٥)	٧٣ (٦)	٧٧ (٧)	٤٣ (٨)
٤٧ (٩)	٤٩ (١٠)	٤٦ (١١)	٨٩ (١٢)

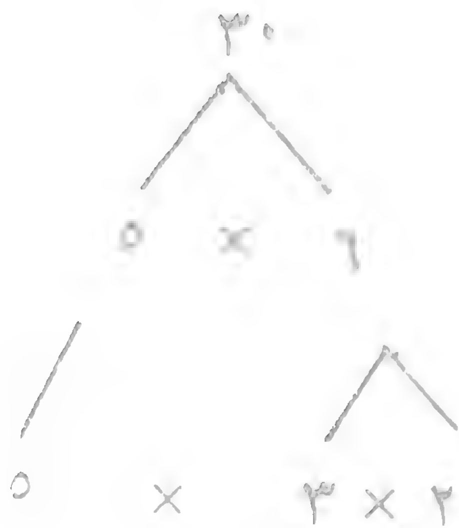
ܫܪܝܬܐ ܕܡܢܝܢܐ ܠܡܦܠܓܢܘܬܗ ܦܪܝܫܬܐ .

ܝܕܝܥܐ ܕܡܦܠܓܢܘܬܐ ܕܡܢܝܢܐ ٦ ܐܝܢܐ ١ ، ٢ ، ٣ ، ٦
ܡܕܟܪ ܡܢ ܕܐܝܟ ܡܦܠܓܢܘܬܐ ܡܢܝܢܐ ܦܪܝܫܐ ܐܝܢܐ ، ܡܢ ܐܝܢܐ؟
ܒܘܫܡܐ ܕܡܦܠܓܢܘܬܐ ܦܪܝܫܬܐ ܕܡܢܝܢܐ ٦ ܫܒܩܐ ܗܘܐ ܡܦܠܓܢܘܬܐ ܕܐܝܢܐ ٢ ، ٣

ܗܘܝ ܕ $٣ \times ٢ = ٦$

ܗܟܢܐ ، ܡܦܠܓܢܘܬܐ ܕܡܢܝܢܐ ١٥ ܐܝܢܐ ١ ، ٣ ، ٥ ، ١٥. ܟܕ ܡܦܠܓܢܘܬܗ ܦܪܝܫܬܐ ܐܝܢܐ ٣ ،
٥ ܒܠܚܘܕ

ܘܐܝܟ ܗܘܝܐ ، ܡܦܠܓܢܘܬܐ ܕܡܢܝܢܐ ٣٠ ܐܝܢܐ ١ ، ٢ ، ٣ ، ٥ ، ٦ ، ١٥ ، ٣٠. ܐܝܢܐ
ܡܦܠܓܢܘܬܐ ܦܪܝܫܬܐ ܕܡܢܝܢܐ ٣٠ ܐܝܢܐ ٢ ، ٣ ، ٥
ܕܐܝܟ ܟܝܢܐ ܡܦܠܓܢܘܬܐ ܦܪܝܫܬܐ ܕܡܢܝܢܐ ٣٠ ܕܟܬܝܒܐ ؟.
ܒܡܚܝܢ ܠܟܠ ܕܦܝܫ ܫܘܡܗܐ ܒܐܝܠܢܐ ܕܡܦܠܓܢܘܬܐ ܡܦܪܫܢܐ :

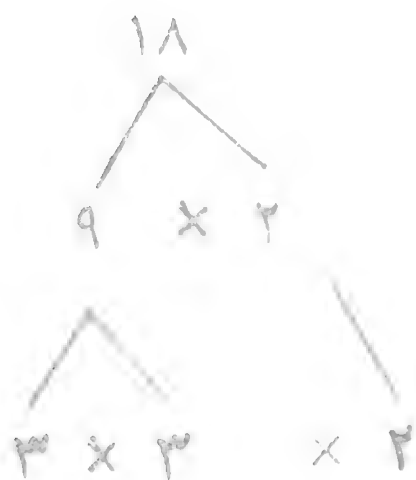


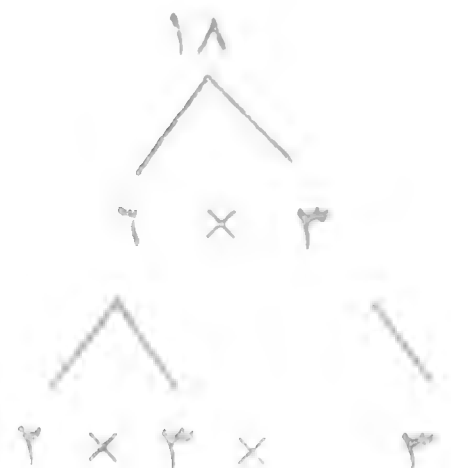
ܦܪ̈ܫܐ ܐܟܚܕܐ ܗܘܝܐ ܕ :

$$٥ \times ٣ \times ٢ = ٣٠$$

ܡܬܠܐ (١)

ܫܪܝ ܡܢܝܢܐ ١٨ ܠܦܪ̈ܫܘܗܝ ܩܕܡܝ̈ܐ.





$$٢ \times ٣ \times ٣ = ١٨$$

ܦܪ̈ܫܐ ܐܟܚܕܐ ܗܘܝܐ ܕܡܢܝܢܐ ... (١٨ = ٣ × ٦

.(١٨ = ٢ × ٩).

ܡܬܠܐ (٢)

ܫܪܝ ܠܡܢܝܢܐ ٧٥ ܠܦܪ̈ܫܘܗܝ ܩܕܡܝ̈ܐ

ܫܪܝܐ

ܡܢܝܢܐ ٧٥ ܦܝܫ ܡܬܦܠܓܐ ܥܠ ٥

ܗܕܝܢ $٧٥ = ٥ \times ؟$

ܗܝܕܝܢ ... ...

ܘܡܫܠܡܢܢ ... ... : $٧٥ = ٥ \times ١٥$ ( )

$$٧٥ = ٣ \times ٥ \times ٥$$

ܘܡܢܝܢܐ ܝܠܗ ܕܡܦܠܓܝܚ ܠܗ ܐܚܪܢܐ ܥܒܕܐ ܡܢ ܬܠܬܐ ܕܦܠܓܘܬܐ ܐܝܟ ܒܬܚܬܐ ܝܠܗ :

٧٥ ܠܐ ܦܝܫ ܡܬܦܠܓܐ ܥܠ ٢ (ܩܐ ܕ ܡܢܝܢܐ ܦܪܝܕܐ)

٧٥ ܦܝܫ ܡܬܦܠܓܐ ܥܠ ٣ ܘܗܘܝܐ ٢٥

٢٥ ܦܝܫ ܡܬܦܠܓܐ ܥܠ ٥ ܘܗܘܝܐ ٥

٥ ܦܝܫ ܡܬܦܠܓܐ ܥܠ ٥ ܘܗܘܝܐ ١

ܗܘܐ ٧٥ = ٣ × ٥ × ٥

٧٥	٣
٢٥	٥
٥	٥
١	

ܘܡܫܟܚܢܐ ܒܢܘܦܩܐ ܕܦܠܓܘܬܐ ܦܪܝܫܝܐ ܕܡܢܝܢܐ ٧٥ ܗܝ ܝܗܘܒܬܐ ܐܢܝ ٣ ، ٥

ܬܘܩܢܐ :

ܥܒܕ ܠܡܢܝܢܐ ٢٠٤ ܠܦܠܓܘܬܗ ܦܪܝܫܝܐ.

ܫܪܝܐ :

٢٠٤ ܡܢܝܢܐ ܙܘܓܝܐ ܘܗܘ ܦܝܫ ܡܬܦܠܓܐ ܥܠ ٢
(ܩܐ ܕ ܡܢܝܢܐ ܙܘܓܝܐ) ܘܗܘܝܐ ١٠٢
١٠٢ ܡܢܝܢܐ ܙܘܓܝܐ ܘܗܘ ܦܝܫ ܡܬܦܠܓܐ ܥܠ ٢
ܘܗܘܝܐ ٥١
٥١ ܟܢܘܫܝܐ ܕܡܢܝܢܗ ٦ ܘܗܘ ܦܝܫ ܡܬܦܠܓܐ ܥܠ ٣
ܘܗܘܝܐ
١٧ ܡܢܝܢܐ ܦܪܝܕܐ ܦܝܫ ܡܬܦܠܓܐ ܥܠ ܓܢܗ
ܘܗܘܝܐ ١

٢٠٤	٢
١٠٢	٢
٥١	٣
١٧	١٧
١	

ܘܗܘܐ :

$$١٧ \times ٣ \times ٢ \times ٢ = ٢٠٤$$

ܘܒܢܘܦܩܐ ܕܦܠܓܘܬܐ ܦܪܝܫܝܐ ܕܡܢܝܢܐ ٢٠٤ ܐܢܝ ܝܗܘܒܬܐ ٢ ، ٣ ، ١٧

ܕܘܪܫܐ (٧ - ٤ ܒ)

ܚܕ : ܡܠܝ ܐܝܠܢܐ ܕܦܘܪܫܐ، ܘܡܢ ܒܬܪ ܟܬܘܒ ܠܡܢܝܢܐ ܐܝܟ ܡܦܩܬܐ ܕܡܢܝܢ̈ܐ ܕܦܘܪܫܐ ܩܕܡܝ̈ܐ :

٤٢
□ × ٢
□ × □ × □
□ × □ × □ = ٤٢

٢٧
٣ × □
٣ × □ × □
٣ × □ × □ = ٢٧

٦٣
٩ × □
٣ × □ × □
٣ × □ × □ = ٦٣

٤٠
□ × ١٠
٢ × □ × □ × □
٢ × □ × □ × □ = ٤٠

٥٦
٨ × □
٤ × □ × □
٢ × □ × □ × □
٢ × □ × □ × □ = ٥٦

٦٤
□ × ٤
□ × ٢ × ٢ × □
□ × □ × □ × □ × □
□ × ٢ × □ × □ × □ × □
□ × □ × □ × □ × □ × □ = ٦٤

ܬܪܝܢ : ܦܪܘܫ ܠܡܢܝܢ̈ܐ ܕܠܬܚܬ ܠܦܘܪܫܝ̈ܗܘܢ ܩܕܡܝ̈ܐ :

٣٨   ٦٩   ١٣٦   ٢٢٥

٣٢٥   ٦٤٨   ٩٠٠   ١٠٢٤

ܬܠܬܐ : ܚܘܫܒ ܘܚܘܝ ܦܘܪܫܐ ܒܡܦܩܬܐ ܕܦܘܪܫܐ ܩܕܡܝ̈ܐ ܠܟܠ ܚܕ :

١٤ ، ٣٩ ، ٥٥ ، ٥٧ ، ٧٠ ، ٦٢٥

٧ - ٥ ܥܘܦ̈ܦܐ ܡܫܘܬܦ̈ܐ ܙܥܘܪܐ (ܥ . ܡ . ܙ)

ܥܘܦ̈ܦܐ ܕܡܢܝ̈ܢܐ ܝܢܐ ܗܘ̈ܝܐ ܕܡܘܦܩܐ ܕܙܪܒܐ ܡܢܝ̈ܢܐ ܒ : ١ ، ٢ ، ٣ ....
ܐܝܟ ܡܬܠܐ، ܥܘܦ̈ܦܐ ܕܡܢܝ̈ܢܐ ٣ ܝܢܐ :

٣ ، ٦ ، ٩ ، ١٢ ، ١٥ ، ١٨ ، ٢١ ، ٢٤ ، ٢٧ ، ٣٠ ،

ܘܥܘܦ̈ܦܐ ܕܡܢܝ̈ܢܐ ٤ ܝܢܐ :

٤ ، ٨ ، ١٢ ، ١٦ ، ٢٠ ، ٢٤ ، ٢٨ ، ٣٢ ، ٣٦ ،

ܘܐܝܟ ܥܘܦ̈ܦܐ ܡܫܘܬܦ̈ܐ ܠܬܪ̈ܘܝܗܝ ܡܢܝ̈ܢܐ ٣ ، ٤ ܝܢܐ:

١٢ ، ٢٤ ، ٣٦ ، .....

ܘܙܥܘܪܐ ܕܒܝܢ ܥܘܦ̈ܦܐ ܝܠܗ ١٢

ܩܪܝܢ ܡܨܥܝܢܐ ܙܥܘܪܐ ܡܢܝܢܐ ܒܡܫܘܬܦܘܬܐ ܕܥܘܦ̈ܦܐ ܡܫܘܬܦ̈ܐ ܠܬܪ̈ܝܢ ܡܢܝ̈ܢܐ (ܥܘܦ̈ܦܐ ܡܫܘܬܦ̈ܐ ܙܥܘܪܐ) ܘܩܪܝܢ ܠܗܘܢ ܒܩܝܢܝܢ ܥ . ܡ . ܙ .

ܗܫܐ ܘܕܝܢ ܥ . ܡ . ܙ ܠܡܢܝ̈ܢܐ ٣ ، ٤ ܝܠܗ ١٢

ܬܡܪܝܢܐ (١)

ܦܝܫ ܥܘܦ̈ܦܐ ܡܫܘܬܦ̈ܐ ܙܥܘܪܐ ܠܡܢܝ̈ܢܐ ١٢ ، ١٨

ܫܪܝܐ:

ܥܘܦ̈ܦܐ ܕܡܢܝ̈ܢܐ ١٢ ܝܢܐ

١٢ ، ٢٤ ، ٣٦ ، ٤٨ ، ٦٠ ، ٧٢ ، ٨٤ ، ٩٦ ، ١٠٨

ܘܥܘܦ̈ܦܐ ܕܡܢܝ̈ܢܐ ١٨ ܝܢܐ :

١٨ ، ٣٦ ، ٥٤ ، ٧٢ ، ٩٠ ، ١٠٨ ، ١٢٦ ، .....

ܡܫܘܬܦܐ ܕܥܘܦ̈ܦܐ ܡܫܘܬܦ̈ܐ ܠܡܢܝ̈ܢܐ ١٢ ، ١٨ ܗ̇ܘܝܐ ܕܫܦܝ̈ܪܐ :

٣٦ ، ٧٢ ، ١٠٨ ، .....

ܘܙܥܘܪܐ ܥܘܦ̈ܦܐ ܡܫܘܬܦ̈ܐ = ܥ . ܡ . ܙ = ٣٦

ܫܪܝܐ ܐܚܪܢܐ

(ܒܡܦܠܓܘܬܐ ܕܐܘܪܚܐ ܕܫܪܝܘܬܐ ܠܦܪ̈ܘܩܐ ܙܘܓܢ̈ܝܐ)

٣ × ٢ × ٢ = ١٢

٣ × ٣ × ٢ = ١٨

٣ × ٣ × ٢ × ٢ = ܩ . ܡ . ܘ

= ٣٦.

ܡܬܠܐ (٢)

ܐܫܟܚ ܩ . ܡ . ܘ ܠܡܢ̈ܝܢܐ ٢٤ ، ٣٦

ܫܪܝܐ :

٣ × ٢ × ٢ × ٢ = ٢٤

٣ × ٣ × ٢ × ٢ = ٣٦ ،

٣ × ٣ × ٢ × ٢ × ٢ = ܩ . ܡ . ܘ

= ٧٢

ܡܬܠܐ (٣)

ܐܫܟܚ ܩ . ܡ . ܘ ܠܡܢ̈ܝܢܐ ٨ ، ١٢ ، ١٥

ܫܪܝܐ

٢ × ٢ × ٢ = ٨

٣ × ٢ × ٢ = ١٢

٥ × ٣ = ١٥

٥ × ٣ × ٢ × ٢ × ٢ = ܩ . ܡ . ܘ

= ١٢٠

ܚܦܘܫ ܥܒ̈ܘܕܐ ܡܦܠ̈ܓܢܐ ܠܟܠ ܡܢܝ̈ܢܐ ܕܠܬܚܬ :

(١) ٢ (٢) ٥ (٣) ٦ (٤) ٧

(٥) ١٠ (٦) ١١ (٧) ٣٠ (٨) ٢٥

ܐܫܟܚ ܢܕ . ܡ . ܪ ܠܟܠ ܙܘ̈ܓܐ ܡܢ ܡܢܝ̈ܢܐ ܕܠܬܚܬ :

(٩) ٤ ، ٥ (١٠) ٧ ، ٢١ (١١) ٨ ، ١٠

(١٢) ٩ ، ١٢ (١٣) ١٢ ، ١٥ (١٤) ١٣ ، ٣٩

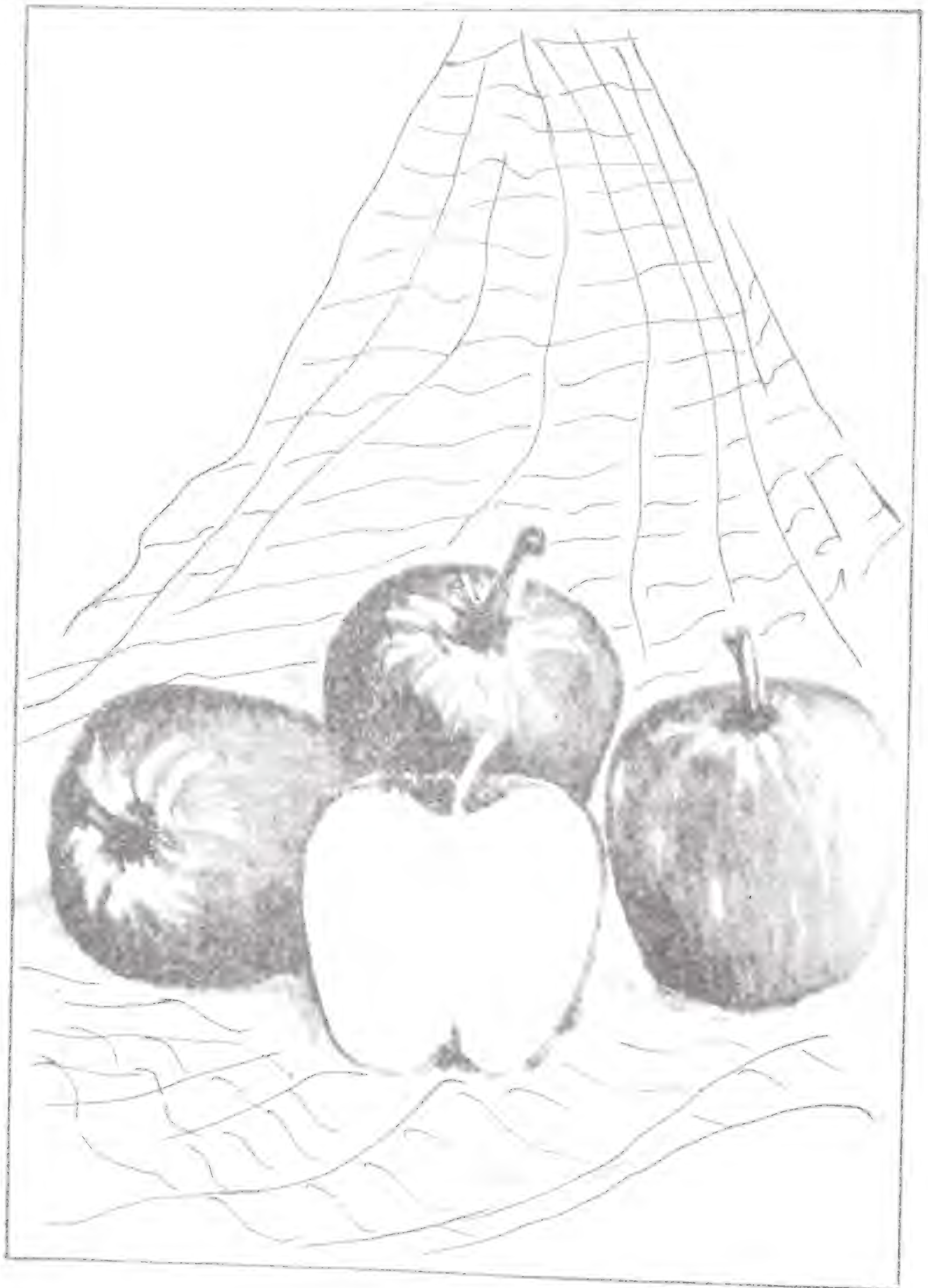
(١٥) ١٨ ، ٣٢ (١٦) ٤٠ ، ٢٠ (١٧) ٣٠ ، ٤٠

ܐܫܟܚ ܢܕ . ܡ . ܦ ܠܬܠܬܝܘܬ ܡܢܝ̈ܢܐ ܒܟܠ ܚܕ ܕܠܬܚܬ :

(١٨) ٩ ، ١٢ ، ١٥

(١٩) ٤ ، ٨ ، ١٢

(٢٠) ١٢ ، ٩ ، ٢١



ܟܡܐ ܦܠܓܐ̈ ܠܗ ٣ $\frac{١}{٢}$ ܘܟܡܐ ܪ̈ܒܥܐ ܠܗ . ٣ $\frac{١}{٢}$ ؟

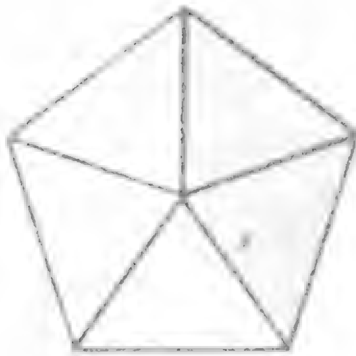
ܦܣܘܩܐ ܘܡܢܝܢܐ

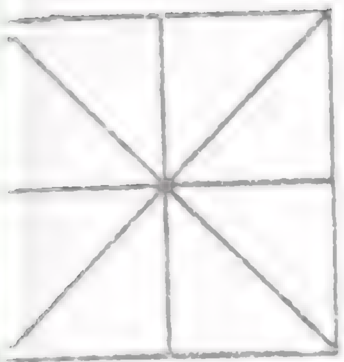
ܦܣܩܐ

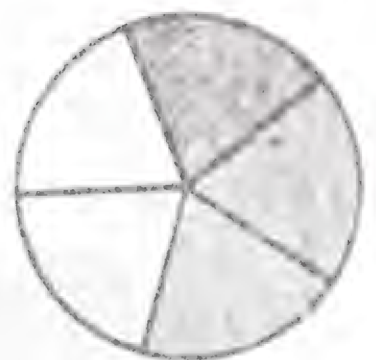
٨ ـ ١ ܦܣܩܐ ܘܦܠܓܘܬܐ ـ ܦܣܩܐ ܘܡܢܘܬܐ

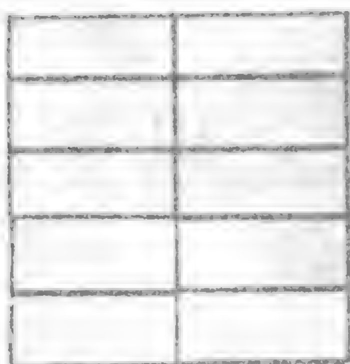
ܟܬܘܒ ܦܣܩܐ ܕܦܣܩܬܐ ܕܡܚܘܝܠ ܥܡܝܐ ܡܢܠܠܗ:





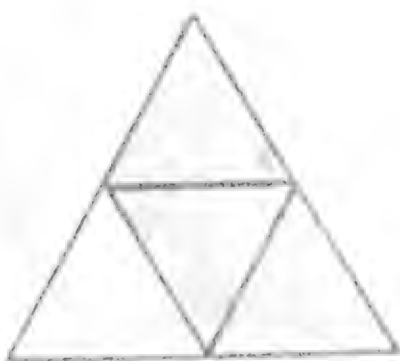


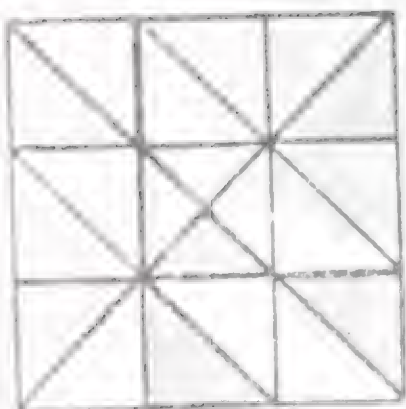




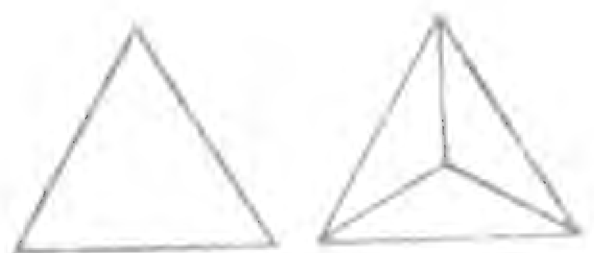




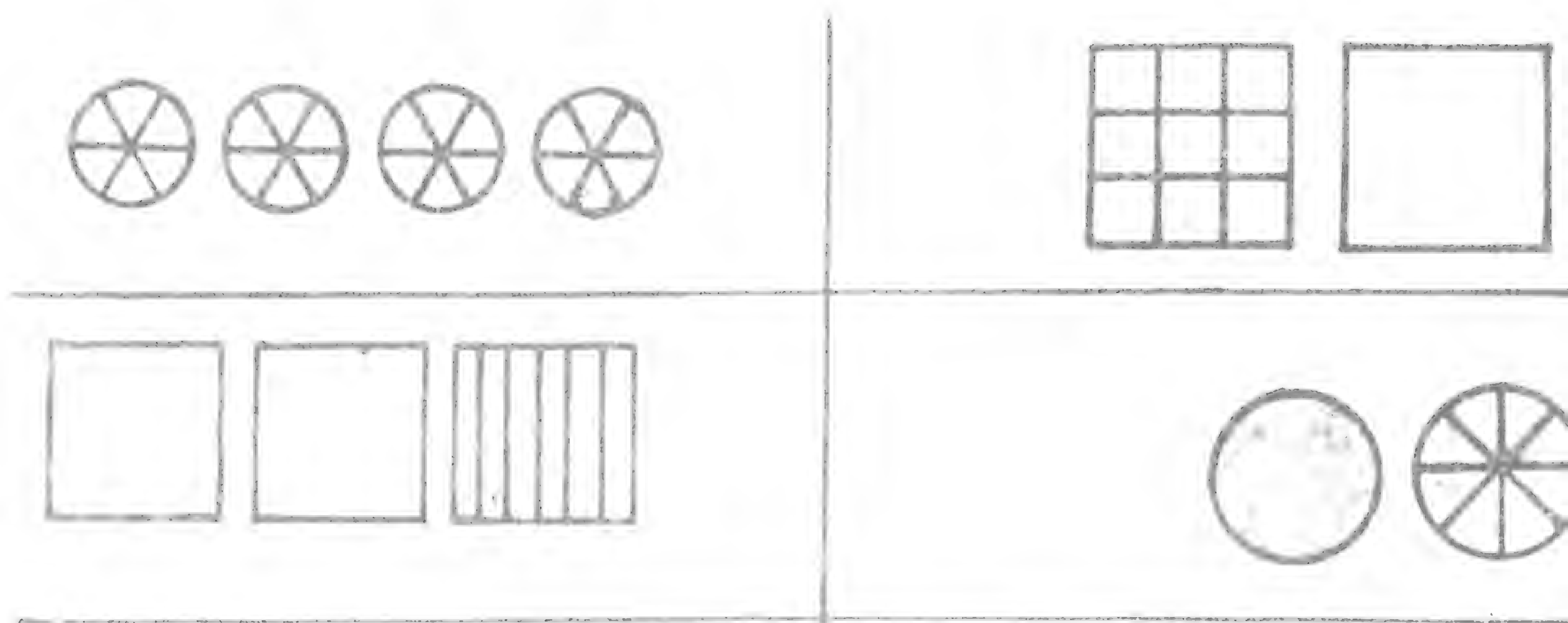




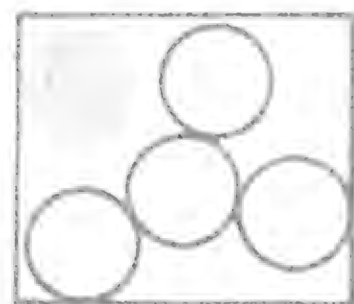
ܟܬܘܒ ܦܣܩܐ ܕܡܚܘܝܢܐ ܦܣܩܬܐ ܟܠܐ ܕܡܘܢ:

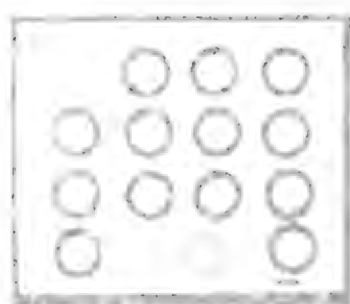




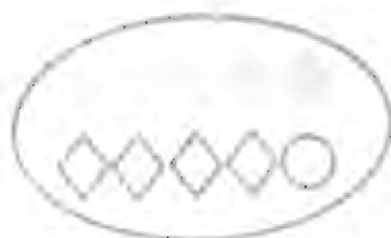


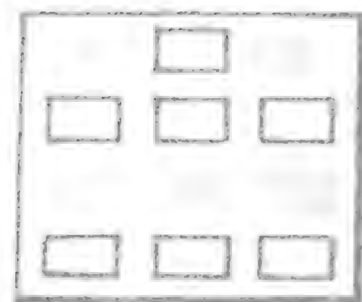
ܚܫܘܿܒ݂ ܡܢܝܵܢܵܐ ܒܡܸܢܝܵܢܵܐ ܕܐܝܼܬ݂ ܠܡܵܐܢܹ̈ܐ ܕܐܸܣܟܘܼܡܹ̈ܐ ܡܩܲܒܠܹ̈ܐ.

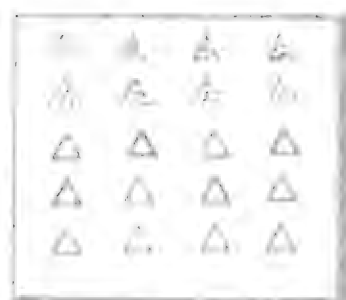


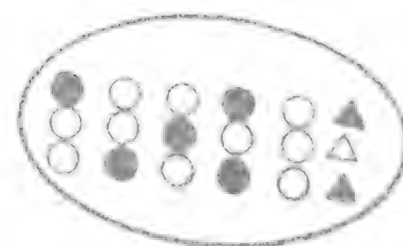


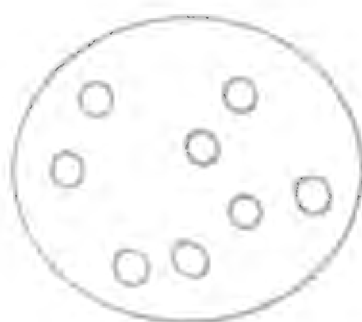








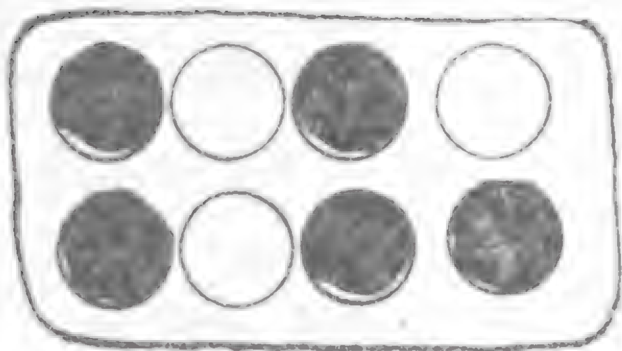


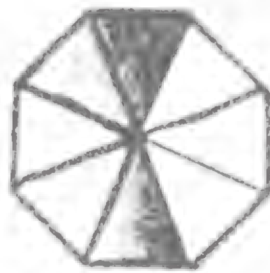


ܟܡܐ ܕܡܟܬܒܬܘܢ ܡܫܘܚܬܐ ܗܠܝܢ ܕ :

ܦܪܬܐ ܡܫܡܗܐ ܡܢܬܐ (ܝܢ ܡܢܘܬܐ) ܡܢ ܚܕ. ܘܟܬܒܐ ܗܟܢܐ ܕܡܢܝܢ ܡܢܘܬܐ
ܕܦܠܝܓܠܗ ܗܠܝܢ ܚܕ ܡܢܘܬܐ ܫܘܝܬܐ.
ܘܦܪܬܐ ܗܝ ܕܡܫܡܗܐ ܡܢܝܢܐ ܕܟܬܒܐ ܕܡܦܘܠܓܐ ܠܗ ܚܘܫܒܐ ܒܡܢܝܢܗ ܡܢܬܐ
ܡܢ ܚܕ . ܘܟܬܒܐ ܠܗ ܗܠܝܢ ܥܠܝܐ ܕܡܦܠܓܘܬܐ ܕܡܦܘܠܓܐ ܟܡ ܗܘ ܕܒܬܝܬ
ܒܗ ܡܢܝܢܐ ܬܚܬܝܐ ܘܠܐ ܦܢܝܐ.

ܗܐ ܠܘܦܐ، $\frac{٥}{٨}$ ܗܝ ܕܡܫܡܗܐ ܚܡܫܐ ܡܢܘܬܐ ܡܢ ܬܡܢܝܐ ܡܢܘܬܐ ܫܘܝܬܐ ܠܚܘܫܒܐ
ܦܠܝܓܠܗ ܠ ٨ ܡܢܘܬܐ ܫܘܝܬܐ ܘܡܣܝܡܠܗ ܥܡܝܠܐ ܡܢܗ ٥ ܡܢܘܬܐ، ܝܢ ܟܢܫܐ ܕܟܠܗ
ܦܠܝܓܐ ܠ ٨ ܦܠܓܘܬܐ ܫܘܝܬܐ ܘܡܣܝܡܠܗ ܥܡܝܠܐ ܡܢܗ ٥ ܦܠܓܘܬܐ)
ܘܗܝ ܕܡܫܡܗܐ ܦܪܬܐ $\frac{٥}{٨}$ ܡܫܡܗܐ ܕܡܦܠܓܘܬܐ ܠܗ ܚܘܫܒܐ ܕܡܢܝܢܐ ܘܡܢܝܢܐ ܕܡܦܠܓܘܬܐ.



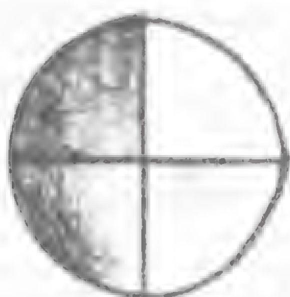


$\frac{٥}{٨}$ ← ܡܦܪܫܢܐ ܕܦܪܬܐ ; ٥ → ܡܢܝܢܐ ; ٨ → ܡܦܠܓܢܐ

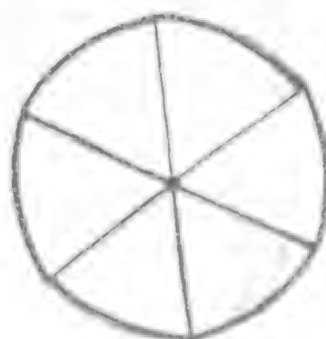
$\frac{٥}{٨}$

٨ — ٢ ܦܪܬܐ ܫܘܝܐ



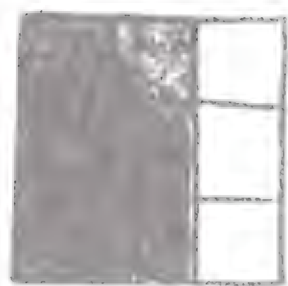
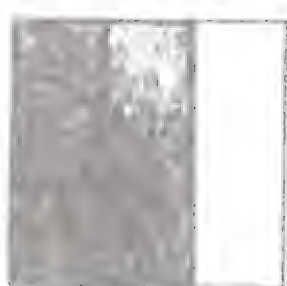


$\frac{٣}{٤} = \frac{٦}{٨}$

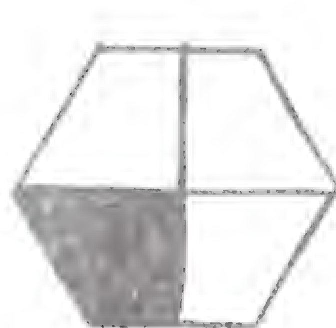
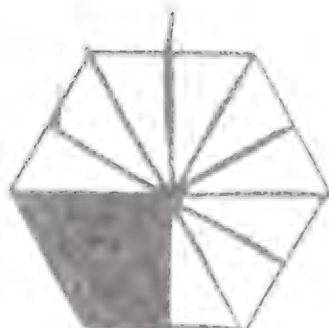




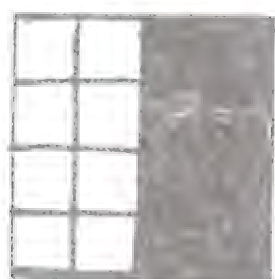
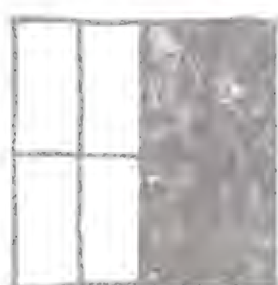
$\frac{١}{٣} = \frac{٢}{٦}$

— = ٢/٣

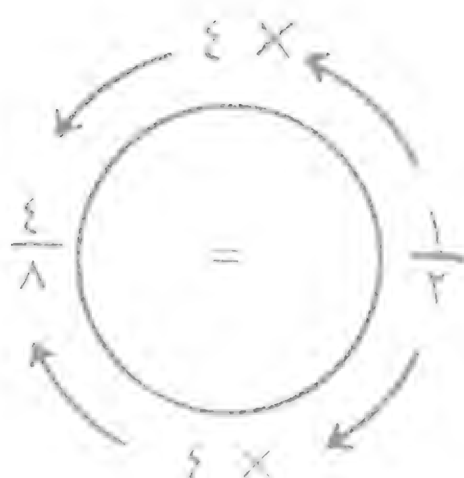
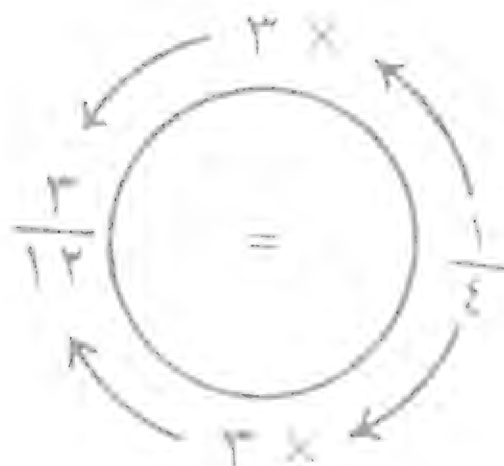
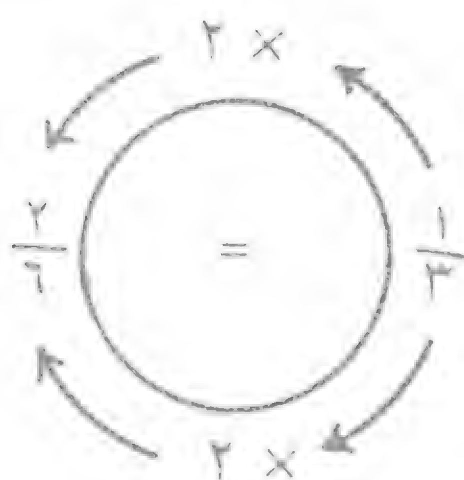
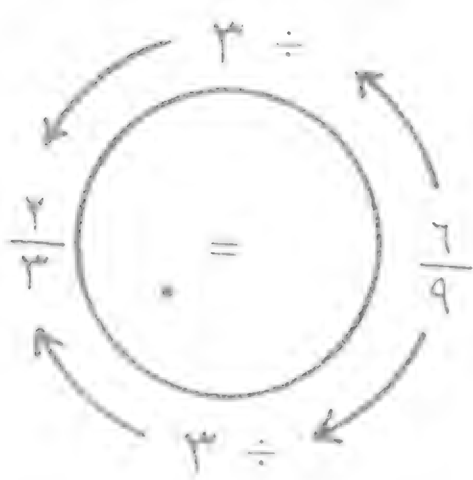
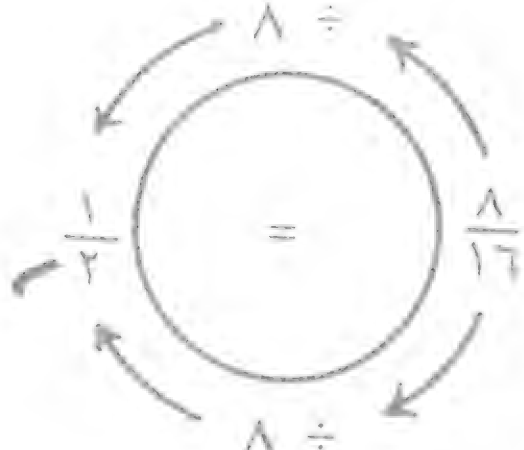
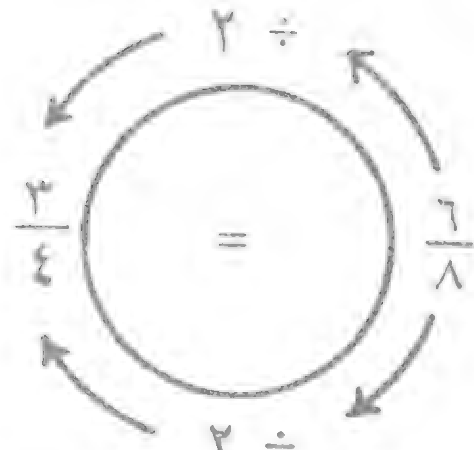
— = ١/٤



١/٢ = —/٤ = ٤/— = —

[illegible] ؟

[illegible] :

[illegible] (≠ ٠)

[illegible]

ܛܘܦܣܐ :

$\frac{١}{٣}$ ، $\frac{٢}{٦}$ ܗܳܢܶܝ ܬܪ̈ܬܶܝܢ ܦܣܝ̈ܩܳܬܳܐ ܕܫܘ̈ܝܳܬܳܐ ܒܚܕ̈ܕܶܐ ، ܘܟܳܬ̇ܒܺܝܢ $\frac{١}{٣} = \frac{٢}{٦}$

$\frac{٦}{٩}$ ، $\frac{٢}{٣}$ ܗܳܢܶܝ ܬܪ̈ܬܶܝܢ ܦܣܝ̈ܩܳܬܳܐ ܕܫܘ̈ܝܳܬܳܐ ܒܚܕ̈ܕܶܐ ، ܘܟܳܬ̇ܒܺܝܢ $\frac{٦}{٩} = \frac{٢}{٣}$

. . . . ܘܫܳܪܟܳܐ

ܕܺܐܝܟ ܝܳܕܥܺܝܢܰܢ ܡܶܢ ܫܘܝܘܬܳܐ ܕܬܪ̈ܬܶܝܗܶܝܢ ܦܣܝ̈ܩܳܬܳܐ ؟

$\frac{١}{٣} \times \frac{٢}{٦}$ ܘܦܪ̈ܩܶܐ ܕܟܠܗܘܢ ܫܘ̈ܝܶܐ $١ \times ٦ = ٣ \times ٢$

، $\frac{٣}{٤} \times \frac{٦}{٨}$ ܘܦܪ̈ܩܶܐ ܕܟܠܗܘܢ ܫܘ̈ܝܶܐ $٣ \times ٨ = ٤ \times ٦$

، $\frac{١}{٤} \times \frac{٣}{١٢}$ ܘܦܪ̈ܩܶܐ ܕܟܠܗܘܢ ܫܘ̈ܝܶܐ $١ \times ١٢ = ٤ \times ٣$

ܐܶܢ $\frac{٣}{٥} = \frac{٥}{٨}$ ؟

$٣ \times ٨ = ٢٤$ ، $٥ \times ٥ = ٢٥$

$\therefore ٣ \times ٨ \neq ٥ \times ٥$

$\therefore \frac{٣}{٥} \neq \frac{٥}{٨}$

ܕܘܪ̈ܫܶܐ (٨ - ١)

١ - ܟܬܘܒ ܗ̇ܘ ܕܣܳܦܩ ܠܗܳܢܶܝ ܦܣܝ̈ܩܳܬܳܐ ܫܘ̈ܝܳܬܳܐ

(ܐ) $\frac{٤}{٥} = \frac{\quad}{١٠}$ (ܒ) $\frac{٣}{\quad} = \frac{١}{٤}$ (ܓ) $\frac{\quad}{٦} = \frac{٢}{٣}$

(ܕ) $\frac{٧}{\quad} = \frac{١}{٣}$ (ܗ) $\frac{٥}{٨} = \frac{٢٠}{\quad}$ (ܘ) $\frac{٣}{٧} = \frac{\quad}{١٤}$

(ܙ) $\frac{٥}{٩} = \frac{\quad}{٢٧}$ (ܚ) $\frac{٢٠}{٢٨} = \frac{١٠}{\quad}$ (ܛ) $\frac{١}{٣} = \frac{\quad}{٢٤}$

(ܝ) $\frac{١٢}{١٨} = \frac{\quad}{٦}$ (ܟ) $\frac{٥٠}{٦٠} = \frac{٥}{\quad}$ (ܠ) $\frac{٧}{\quad} = \frac{١}{٢}$

٢ - ܫܡܠܝ ܗܠܝܢ ܕܦܣܩܐ ܠܦܣܩܬܐ ܫܘܝܬܐ

(ܐ) $\frac{١}{٢} = \frac{٦}{\square} = \frac{\square}{٤} = \frac{٥}{\square} = \frac{\square}{٨}$

(ܒ) $\frac{٢}{٣} = \frac{\square}{٦} = \frac{\square}{١٥} = \frac{٨}{\square} = \frac{١٦}{\square}$

(ܓ) $\frac{٥}{٧} = \frac{١٠}{\square} = \frac{\square}{٢٨} = \frac{\square}{٣٥} = \frac{٢٥}{\square}$

(ܕ) $\frac{٣}{٨} = \frac{\square}{١٦} = \frac{\square}{٤٠} = \frac{٩}{\square} = \frac{٢٧}{\square}$

٣ - ܟܬܘܒ ܬܠܬܐ ܦܣܩܬܐ ܐܚܪܢܝܬܐ ܫܘܝܢ ܠܦܣܩܬܐ :

(ܐ) $\frac{١}{٧}$ (ܒ) $\frac{٣}{٥}$ (ܓ) $\frac{٤}{٥}$ (ܕ) $\frac{٢}{٩}$

٤ - ܣܝܡ ✓ ܩܕܡ ܦܘܠܚܢܐ ܬܪܝܨܐ ، × ܩܕܡ ܦܘܠܚܢܐ ܠܐ ܬܪܝܨܐ

(ܐ) $\frac{٣}{٩} = \frac{١}{٣}$ $\square$

(ܒ) $\frac{\text{[illegible]}}{٨} = \frac{٣}{٦}$ $\square$

(ܓ) $\frac{١}{٤} = \frac{\text{[illegible]}}{٨}$ $\square$

(ܕ) $\frac{٥}{٦} = \frac{٦}{٧}$ $\square$

(ܗ) $\frac{٣}{٥} = \frac{\text{[illegible]}}{\text{[illegible]}}$ $\square$

(ܘ) $\frac{٩}{١٥} = \frac{٦}{٢٠}$ $\square$

(ܙ) $\frac{٤}{٦} = \frac{٢}{٣}$ $\square$

(ܚ) $\frac{٦}{٧} = \frac{٨}{٩}$ $\square$

(ܛ) $\frac{٥}{٨} = \frac{١٥}{١٨}$ $\square$

(ܝ) $\frac{٣}{٥} = \frac{٤}{٧}$ $\square$

(ܟ) $\frac{١٤}{١٦} = \frac{٢١}{٢٤}$ $\square$

(ܠ) $\frac{٤٥}{٩٠} = \frac{٣٤}{٦٨}$ $\square$

٨ - ٣ ܦܣܩܬܐ ܕܪܒܐ ܡܢ ܚܕ (ܦܣܩܬܐ ܠܐ ܫܪܝܪܬܐ) :

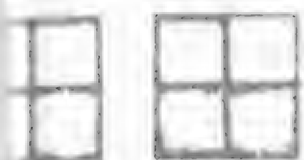
ܚܙܝ ܗܠܝܢ ܦܣܩܬܐ ܕܫܘܪܝܗܝܢ ܪܒ ܡܢ ܫܘܠܡܗܝܢ ܐܝܟ :

$\frac{٧}{٤}$ ، $\frac{٨}{٣}$ ، $\frac{١٥}{٤}$ ، $\frac{٢٣}{٥}$ . . . .

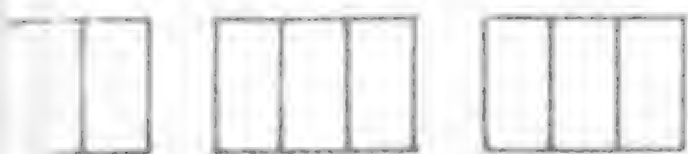
ܟܠ ܚܕ ܕܗܠܝܢ ܦܣܩܬܐ ܪܒܐ ܡܢ ܚܕ ܗܘ.

ܟܠ ܦܠܓܘܬܐ ܕܡܢܝܢܗ ܪܒ ܡܢ ܡܦܠܓܢܗ ܡܨܐ ܕܗܘܐ ܡܚܘܝܐ ܒܨܘܪܬܐ ܕܡܢܝܢܐ ܡܚܠܛܐ (ܡܢܝܢܐ ܘܦܠܓܘܬܐ) ܐܝܟ

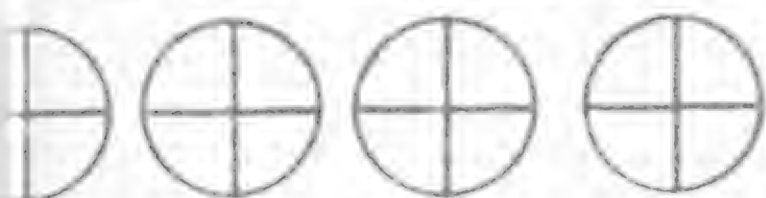
ܕܗܘܦܐ : $\frac{٧}{٤} = \frac{٤}{٤} + \frac{٣}{٤} = ١ + \frac{٣}{٤} = ١\frac{٣}{٤}$



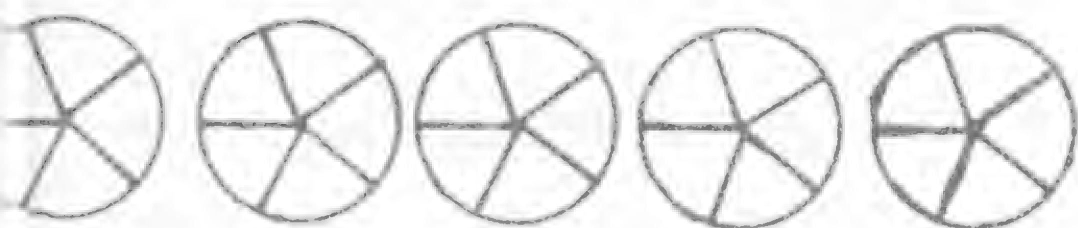
، $\frac{٨}{٣} = \frac{٦}{٣} + \frac{٢}{٣} = ٢ + \frac{٢}{٣} = ٢\frac{٢}{٣}$



، $\frac{١٥}{٤} = \frac{١٢}{٤} + \frac{٣}{٤} = ٣ + \frac{٣}{٤} = ٣\frac{٣}{٤}$



، $\frac{٢٣}{٥} = \frac{٢٠}{٥} + \frac{٣}{٥} = ٤ + \frac{٣}{٥} = ٤\frac{٣}{٥}$



. . . . ܘܥܕܡܐ

ܘܗܟܢ ܕܡܚܠܛܘܬܗ ܒܦܘܠܓܐ ܠܡܢܝܢܐ ܒܦܘܠܓܐ ܕܦܠܓܘܬܐ . ܘܐܝܟ ܕܐܬܐ ܒܬܪܐ :

$\frac{٥}{٤} = ٥ \div ٤$ ، $٥ \div ٤ = ١$ ܘܫܪܟܢܐ ܒܗܘܝܐ ١

ܒܗܘܝܐ $\frac{٥}{٤} = ١ + \frac{١}{٤} = ١\frac{١}{٤}$

، $\frac{٧}{٣} = ٧ \div ٣$ ، $٧ \div ٣ = ٢$ ܘܫܪܟܢܐ ܒܗܘܝܐ ١

ܒܗܘܝܐ $\frac{٧}{٣} = ٢ + \frac{١}{٣} = ٢\frac{١}{٣}$

، $\frac{١٥}{٤} = ١٥ \div ٤$ ، $١٥ \div ٤ = ٣$ ܘܫܪܟܢܐ ܒܗܘܝܐ ٣

ܒܗܘܝܐ $\frac{١٥}{٤} = ٣ + \frac{٣}{٤} = ٣\frac{٣}{٤}$

، $\frac{٢٣}{٥} = ٢٣ \div ٥$ ، $٢٣ \div ٥ = ٤$ ܘܫܪܟܢܐ ܒܗܘܝܐ ٣

ܒܗܘܝܐ $\frac{٢٣}{٥} = ٤ + \frac{٣}{٥} = ٤\frac{٣}{٥}$

. . . . . ܘܥܕܡܐ

ܘܒܗܕܐ ܗܘܐ ܕܦܝܫ ܡܚܘܝܬܐ ܟܠ ܦܠܓܘܬܐ ܠܡܢܝܢܐ ܕܪܒ ܡܢ ܡܦܠܓܢܗ

ܦ ܡܬ̈ܠܐ :

$$٢\frac{١}{٢} = ٢ + \frac{١}{٢} = \frac{٤}{٢} + \frac{١}{٢} = \frac{٥}{٢} .$$

ܐܘ $٢\frac{١}{٢} = \frac{٢ \times ٢ + ١}{٢} = \frac{٥}{٢}$

، $٣\frac{٣}{٤} = ٣ + \frac{٣}{٤} = \frac{١٢}{٤} + \frac{٣}{٤} = \frac{١٥}{٤} .$

ܐܘ $٣\frac{٣}{٤} = \frac{٣ \times ٤ + ٣}{٤} = \frac{١٥}{٤}$

، $٧\frac{١}{٥} = ٧ + \frac{١}{٥} = \frac{٣٥}{٥} + \frac{١}{٥} = \frac{٣٦}{٥} .$

ܐܘ $٧\frac{١}{٥} = \frac{٧ \times ٥ + ١}{٥} = \frac{٣٦}{٥}$

ܒܘܕ̈ܩܐ

ܡܠܝ ܐܝܟ ܡܬ̈ܠܐ

(ܐ) $٣\frac{١}{٨} = \frac{٣ \times ٨ + ١}{٨} = \frac{٢٤ + ١}{٨} = \frac{٢٥}{٨}$

(ܒ) $٢\frac{٤}{٩} = \frac{٢ \times \square + ٤}{٩} = \frac{\square + ٤}{٩} = \frac{\square}{٩}$

(ܓ) $٩\frac{٣}{٧} = \frac{\square \times \square + ٣}{٧} = \frac{\square + \square}{\square} = \frac{\square}{\square}$

(ܕ) $٨\frac{٥}{٦} = \frac{\square \times \square + \square}{\square} = \frac{\square + \square}{\square} = \frac{\square}{\square}$

(ܗ) $\frac{٤١}{٦} = ٦ + \frac{٥}{٦} = ٦\frac{٥}{٦}$

(ܘ) $\frac{٦٥}{٨} = ٨ + \frac{\square}{٨} = \square$

(ܙ) $\frac{٤٩}{٩} = \square + \frac{\square}{٩} = \square$

ܣ) $\frac{٣٧}{٥} = \square + \frac{\square}{\square} = \square$

ܕܘܪ̈ܫܐ (٨ - ٧)

١ - ܟܬܘܒ ܒܨܘܪܬܐ ܕܡܢܝ̈ܢܐ ܡܥܪ̈ܒܐ

ܐ) $\frac{٩}{٤}$ ܒ) $\frac{٨}{٥}$ ܓ) $\frac{١٩}{٣}$

ܕ) $\frac{١٣}{٥}$ ܗ) $\frac{٢٧}{٦}$ ܘ) $\frac{٣٠}{٤}$

ܙ) $\frac{٥٩}{٩}$ ܚ) $\frac{٦٠}{٨}$ ܛ) $\frac{٨٢}{٦}$

ܝ) $\frac{٥٨}{٤}$ ܟ) $\frac{٤٥}{١٠}$ ܠ) $\frac{٢١}{٧}$

ܡ) $\frac{٤٢}{٦}$ ܢ) $\frac{٧٩}{٤}$ ܣ) $\frac{٩٩}{٥}$

٢ - ܟܬܘܒ ܒܨܘܪܬܐ ܕܦܣ̈ܩܐ

ܐ) $٢\frac{٥}{٦}$ ܒ) $٦\frac{١}{٣}$ ܓ) $٧\frac{٢}{٩}$

ܕ) $٥\frac{٢}{٣}$ ܗ) $٣\frac{٥}{٨}$ ܘ) $٨\frac{٣}{٥}$

ܙ) $١٨\frac{١}{٣}$ ܚ) $١١\frac{٣}{٧}$ ܛ) $١٢٥\frac{٥}{٨}$

٣ - ܐܝܢܘ ܦܣ̈ܩܐ ܕܙܥܘܪ ܡܢ ܚܕ ܘܐܝܢ̈ܐ ܪ̈ܒܐ ܡܢ ܚܕ :

$\frac{٢}{٣}$ ، $\frac{٩}{٧}$ ، $\frac{٨}{١٧}$ ، $\frac{١٥}{١٥}$ ، $\frac{١٢}{٣٤}$ ، $\frac{١٩}{١٨}$.



٨ — ٤ ܡܦܫܛܬܐ ܕܡܢܘܬܐ



$$\frac{١٢}{٢٠} = \frac{١٢ \div ٢}{٢٠ \div ٢} = \frac{٦}{١٠}$$



$$\frac{٦}{١٠} = \frac{٦ \div ٢}{١٠ \div ٢} = \frac{٣}{٥}$$

$\frac{٣}{٥}$ ܦܫܝܛܬܐ ܠܡܢܘܬܐ ܝܠܗ ܙܘܥܪܐ ܢܡܘܣܐ $\frac{١٢}{٢٠}$

(ܣܘܟ ܕܡܦܠܓܢܐ ܡܫܘܬܦܐ ܪܒܐ ܕܬܪܘܝܗܘܢ، ܡܢܝܢܐ ٣ ، ٥ ܝܠܗ ١)

ܡܬܠܐ

$$\frac{١٢}{١٨} = \frac{١٢ \div ٢}{١٨ \div ٢} = \frac{٦}{٩}$$

$$، \frac{٦}{٩} = \frac{٦ \div ٣}{٩ \div ٣} = \frac{٢}{٣}.$$

$\frac{٢}{٣}$ ܝܠܗ ܙܘܥܪܐ ܢܡܘܣܐ ܦܫܝܛܬܐ ܠܡܢܘܬܐ $\frac{١٢}{١٨}$.

ܣܘܟ ܕ. ܡ. ܪ. ܠܡܢܝܢܐ ٢ ، ٣ ܗ̄ܘܐ ١

ܦܘܫܩܐ

ܦܫܘܛ ܠܙܘܥܪܐ ܢܡܘܣܐ ܦܫܝܛܬܐ:

(ܐ) $\frac{١٨}{٢٤}$ (ܒ) $\frac{٤٠}{٧٢}$

ܫܪܝܐ

(ܐ) $\frac{١٨}{٢٤} = \frac{١٨ \div ٢}{٢٤ \div ٢} = \frac{٩}{١٢}$

$$= \frac{٩ \div ٣}{١٢ \div ٣} = \frac{٣}{٤}$$

ܫܪܝܐ ܐܚܪܢܐ

$$١٨ = ٢ \times ٣ \times ٣$$

٢٤ = ٢ × ٣ × ٤ ،

ܕ . ܡ . ܓ = ٢ × ٣ = ٦ ∴

ܗܘܝܐ ، $\frac{١٨}{٢٤} = \frac{١٨ \div ٦}{٢٤ \div ٦} = \frac{٣}{٤}$

(ܒ) $\frac{٤٠}{٧٢} = \frac{٤٠ \div ٢}{٧٢ \div ٢} = \frac{٢٠}{٣٦}$

$= \frac{٢٠ \div ٢}{٣٦ \div ٢} = \frac{١٠}{١٨}$

$= \frac{١٠ \div ٢}{١٨ \div ٢} = \frac{٥}{٩}$

ܫܪܟܐ ܐܚܪܢܐ .

٤٠ = ٢ × ٢ × ٢ × ٥ ،

٧٢ = ٢ × ٢ × ٢ × ٣ × ٣ ،

ܕ . ܡ . ܓ = ٢ × ٢ × ٢ = ٨

ܗܘܝܐ ، $\frac{٤٠}{٧٢} = \frac{٤٠ \div ٨}{٧٢ \div ٨} = \frac{٥}{٩}$.

ܕܘܪܫܐ (٨ – ٣)

ܟܬܘܒ ܒܨܘܪܬܐ ܕܒܪܐ ܦܫܝܛܬܐ

(١) $\frac{٨}{١٤}$	(٢) $\frac{٩}{١٥}$	(٣) $\frac{١٢}{٢٠}$	(٤) $\frac{١٥}{٢٤}$
(٥) $\frac{٢١}{٢٨}$	(٦) $\frac{٦}{١٨}$	(٧) $\frac{١٨}{٣٠}$	(٨) $\frac{٨}{٦٤}$
(٩) $\frac{٢٧}{٨١}$	(١٠) $\frac{٤٠}{٦٠}$	(١١) $\frac{١٨}{٢٧}$	(١٢) $\frac{١٦}{٤٤}$

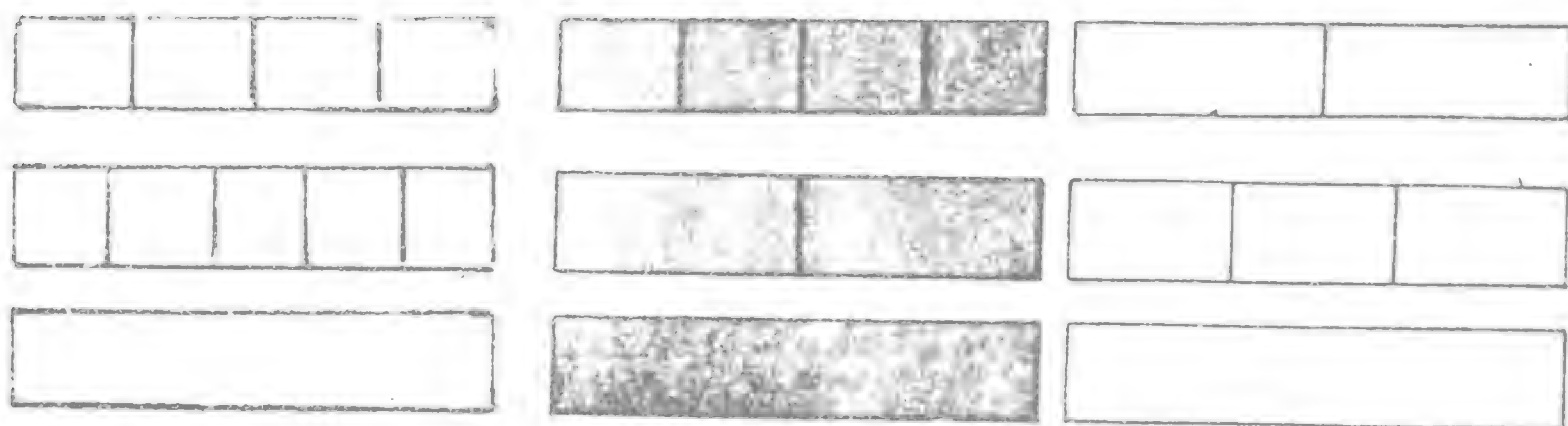
(١٣) $\frac{١٨}{٤٨}$ (١٤) $\frac{٥}{٦٠}$ (١٥) $\frac{١٥}{٧٥}$ (١٦) $\frac{٧٥}{١٠٠}$

(١٧) $\frac{٢٥}{٨٠}$ (١٨) $\frac{٧٥}{١٧٥}$ (١٩) $\frac{١٠٠}{٣٠٠}$ (٢٠) $\frac{١٧٥}{٨٧٥}$

ܐܝܢܘ ܡܢܝܢܐ ܕܐ̈ܢܐ ܟܦܘܪ̈ܬܐ ܢܫܘܐ ܦܣܝܩܬܐ ܚܕܐ ؟

$\frac{٤}{٥}$ ، $\frac{٩}{٢١}$ ، $\frac{٧}{١٧}$ ، $\frac{٥}{٥}$ ، $\frac{٣}{١٢}$ ، $\frac{٨}{٩}$

٨ - ܒ ܦܘܫܪܐ ܕܡܢܝܢܐ



$\frac{١}{٣} < \frac{١}{٢}$ $\frac{١}{٢} > \frac{١}{٤}$ $\frac{١}{٤} > \frac{١}{٥}$

$\frac{٢}{٣}$ ○ $\frac{١}{٣}$ $\frac{٣}{٤}$ ○ $\frac{١}{٢}$ $\frac{٢}{٥}$ ○ $\frac{١}{٢}$

$\frac{١}{٤}$ ○ $\frac{٣}{٤}$ $\frac{١}{٢}$ ○ $\frac{٣}{٥}$

$\frac{٢}{٤}$ ○ $\frac{١}{٢}$ $\frac{٣}{٥}$ ○ $\frac{٢}{٥}$

$\frac{٣}{٤}$ ○ $\frac{٤}{٥}$

ܒܚܘܒܪ̈ܐ ܕܦܘܫܪܐ ܬܪܝܢ ܦܣܝ̈ܩܬܐ ܕܐܝܬ ܒܗܘܢ ܡܢܝܢܐ ܚܕ ܗܘ ܒܡܘܢܝܐ ܩܕܡܝܐ ܕܢܦܫ ܘܗܘܐ.

ܟܕ ܡܢܝܢܐ ܢܝܫܐ ܠܫܒܥܐ > ܗ̈ܘ < ܗ̈ܘ = ܗ̈ܘ ܚܘܠܡܢܐ

ܐ̈ܢܐ ܐ̈ܢܐ ܬܪܝܢ ܕܦܣܝܩܝܢ ܗܕܐ ܡܢܝܢܐ ܕܟܠ ܚܘܒܪ̈ܐ ܕܦܘܫܪܐ ؟

ܢܕܥܝܢܢ : ܐܢ ܗܕܐ ܡܢܝܢܐ ܗܘܐ ܕܡܢܝܢܐ ܒܦܣܩܬܐ.

$٤ > ٣$ ܡܛܠ $\frac{٤}{٥} > \frac{٣}{٥}$

$\frac{٧}{٨} > \frac{٥}{٨}$ [illegible] $٧ > ٥$

$\frac{٣}{١١} < \frac{٩}{١١}$ [illegible] □ < □

[illegible] : [illegible]

[illegible]

[illegible] > ܐܘ < ܐܘ = [illegible] :

(١) $\frac{٥}{٨}$ □ $\frac{٧}{٨}$ (٢) $\frac{٤}{٩}$ □ $\frac{٢}{٩}$

(٣) $\frac{٧}{١٢}$ □ $\frac{٥}{١٢}$ (٤) $\frac{٩}{١١}$ □ $\frac{١٠}{١١}$

(٥) $\frac{٤}{٧}$ □ $\frac{٤}{٧}$ (٦) $\frac{٥}{٦}$ □ $\frac{٤}{٦}$

[illegible] : [illegible]

[illegible] $\frac{١}{٣}$ ܐܘ $\frac{١}{٤}$ ؟

[illegible] $\frac{١}{٣} = \frac{٤}{١٢}$ ، $\frac{١}{٤} = \frac{٣}{١٢}$

[illegible] $\frac{١}{٣} > \frac{١}{٤}$ [illegible] $\frac{٤}{١٢} > \frac{٣}{١٢}$

[illegible] $\frac{٢}{٣}$ ܐܘ $\frac{٣}{٥}$ ؟

[illegible] $\frac{٢}{٣} = \frac{١٠}{١٥}$ ، $\frac{٣}{٥} = \frac{٩}{١٥}$

[illegible] $\frac{٢}{٣} > \frac{٣}{٥}$ [illegible] $\frac{١٠}{١٥} > \frac{٩}{١٥}$

[illegible] $\frac{١}{٢}$ ܐܘ $\frac{٥}{١٠}$ ؟

$\frac{١}{٢} = \frac{٥}{١٠}$

[illegible]

[illegible]

ܡܬܠܐ (١)

ܐܝܢܘ ܦܣܩܐ ܪܒ : :

$\frac{٣}{٨}$ ܐܘ $\frac{٥}{١٢}$ ؟

ܫܪܝܐ

ܟ . ܣ . ܪ ܠܡܢܝܢܐ ٨ ، ١٢ :

$٨ = ٢ \times ٢ \times ٢$

$١٢ = ٢ \times ٢ \quad \times ٣$

ܟ . ܣ . ܪ $= ٢ \times ٢ \times ٢ \times ٣ = ٢٤$

$\frac{٣}{٨} = \frac{٩}{٢٤}$ ، $\frac{٥}{١٢} = \frac{١٠}{٢٤}$

ܘܡܛܠ ܗܕܐ $\frac{٥}{١٢} > \frac{٣}{٨}$.

ܡܬܠܐ (٢)

ܐܝܢܘ ܦܣܩܐ ܙܥܘܪ: : $\frac{٣}{٤}$ أم $\frac{٥}{٦}$ ؟

ܫܪܝܐ

$٤ = ٢ \times ٢$

، $٦ = ٢ \quad \times ٣$

ܟ . ܣ . ܪ $= ٢ \times ٢ \times ٣ = ١٢$

$\frac{٣}{٤} = \frac{٩}{١٢}$ ، $\frac{٥}{٦} = \frac{١٠}{١٢}$

ܘܡܛܠ ܗܕܐ $\frac{٣}{٤} > \frac{٥}{٦}$.

ܡܬܠܐ (٣)

ܣܕܪ ܠܦܣܩܐ ܕܠܬܚܬ ܒܣܘܠܩܐ:

$\frac{٧}{٨}$ ، $\frac{١١}{١٢}$ ، $\frac{٥}{٦}$

ܫܪܝܐ :

$$٢ \times ٢ \times ٢ = ٨$$

$$٣ \times \quad ٢ \times ٢ = ١٢$$

$$٣ \times \quad ٢ = ٦$$

$$ܟ.ܡ.ܦ = ٢ \times ٢ \times ٢ \times ٣ = ٢٤$$

$$\frac{٧}{٨} = \frac{٢١}{٢٤} \text{ ، } \frac{١١}{١٢} = \frac{٢٢}{٢٤} \text{ ، } \frac{٥}{٦} = \frac{٢٠}{٢٤}$$

ܦܣ̈ܩܐ ܡܣܕܪ̈ܐ ܡܫܘܚܬܢܝܐ ܕܗܠܝܢ :

$$\frac{١١}{١٢} \text{ ، } \frac{٧}{٨} \text{ ، } \frac{٥}{٦} \text{ .}$$

ܡܬܠܐ (٤)

ܕܟܐ ܐܝܢܘ ܕܡܫܘܚܬܢ ܦܣܩ ܡܢ ܟܠ ܚܕܐ ܡܢ ܦܣܩ̈ܐ ܪܒܐ ܕܐܝܬ :

(أ) $\frac{٨}{١٥}$ ، $\frac{٤}{٩}$ (ب) $\frac{١٣}{١٢}$ ، $\frac{١٢}{١٣}$ (ﺣ) $\frac{١}{٢٥}$ ، $\frac{١}{٢٧}$ (د) $\frac{٩}{١٥}$ ، $\frac{٩}{١٦}$

ܫܪܝܐ :

(أ) $\frac{٨}{١٥} > \frac{١}{٢}$ (ܠܡܢܐ ؟) ، $\frac{٤}{٩} < \frac{١}{٢}$ (ܠܡܢܐ ؟)

ܒܗܘܐ $\frac{٨}{١٥} > \frac{٤}{٩}$

(ب) $\frac{١٣}{١٢} > ١$ (ܠܡܢܐ ؟) ، $\frac{١٢}{١٣} < ١$ (ܠܡܢܐ ؟)

ܒܗܘܐ $\frac{١٣}{١٢} > \frac{١٢}{١٣}$

(ﺣ) $\frac{١}{٢٥}$ = ܡܢܬܐ ܡܢ ٢٥ ܡܢܘ̈ܬܐ ܫܘ̈ܝܬܐ

$\frac{١}{٢٧}$ = ܡܢܬܐ ܡܢ ٢٧ ܡܢܘ̈ܬܐ ܫܘ̈ܝܬܐ. ܟܠ ܚܕ ܢܦܠ ܒܗܘܢ ܙܥܘܪ̈ܬܐ

ܒܗܘܐ $\frac{١}{٢٥} > \frac{١}{٢٧}$.

(د) $\frac{٩}{١٥}$ = ٩ ܡܢܘ̈ܬܐ ܡܢ ١٥ ܡܢܘ̈ܬܐ ܫܘ̈ܝܬܐ

$\frac{٩}{١٦}$ = ٩ ܡܢܘ̈ܬܐ ܡܢ ١٦ ܡܢܘ̈ܬܐ ܫܘ̈ܝܬܐ ܟܠ ܚܕ ܢܦܠ ܒܗܘܢ ، ܙܥܘܪ̈ܬܐ

ܒܗܘܐ $\frac{٩}{١٥} > \frac{٩}{١٦}$.

ܕܘܪ̈ܫܐ (٨ - ٤)

ܐܬܘ̈ܬܐ > ܐܘ < ܐܘ = ܕܫܝܡ ܒܦܣ̈ܩܐ ܫܘܝ̈ܐ :

(١) $\frac{١}{٢}$ □ $\frac{٣}{٦}$ (٢) $\frac{٢}{٣}$ □ $\frac{٣}{٤}$ (٣) $\frac{٤}{٥}$ □ $\frac{٣}{٤}$

(٤) $\frac{٥}{٦}$ □ $\frac{٢}{٣}$ (٥) $\frac{٣}{٤}$ □ $\frac{٣}{٥}$ (٦) $\frac{٥}{٨}$ □ $\frac{٧}{١٢}$

(٧) $\frac{٧}{٩}$ □ $\frac{٩}{٧}$ (٨) $\frac{٧}{١٢}$ □ $\frac{٨}{١٥}$ (٩) $\frac{٧}{١٨}$ □ $\frac{٥}{١٢}$

(١٠) $\frac{٣}{٤}$ □ $\frac{٢٧}{٣٦}$ (١١) $\frac{١}{٨}$ □ $\frac{٣}{٢٠}$ (١٢) $\frac{٢٥}{٣٦}$ □ $\frac{١٥}{٢٤}$

ܣܕܘܪ ܠܦܣ̈ܩܐ ܕܠܬܚܬ ܒܡܫܘܚܬܐ :

(١٣) $\frac{٣}{٩}$ ، $\frac{٧}{٩}$ ، $\frac{٦}{٩}$ ، $\frac{١}{٩}$ ، $\frac{٥}{٩}$

(١٤) $\frac{٥}{٧}$ ، $\frac{٥}{٨}$ ، $\frac{٥}{٦}$ ، $\frac{٥}{١١}$ ، $\frac{٥}{٩}$

(١٥) $\frac{٢}{٣}$ ، $\frac{٢}{٦}$ ، $\frac{٢}{٥}$ ، $\frac{٢}{٤}$ ، $\frac{٢}{٢}$

(١٦) $\frac{٥}{٦}$ ، $\frac{٣}{٥}$ ، $\frac{٧}{١٠}$

(١٧) ܒܪ ܩܪܝܬܐ ܗܘܐ $\frac{٥}{٦}$ ܕܥܠܬܐ ܢܘܟܪܝܐ ܡܢ ܡܕܝܢܬܐ ܕܒܢܝ̈ܢܐ ܡܕܝܢܝ̈ܐ ، ܘܩܪܝܬܐ ܐܚܪܬܐ ܗܘܐ $\frac{٤}{٥}$
ܕܥܠܬܐ ܡܢ ܕܝܠܗ ܐܝܟܢܐ ، ܐܝܢܐ ܕܩܪܝܬܐ ܝܬܝܪܐ ܗܘܬ ܢܘܟܪܝܬܐ ܡܢ ܡܕܝܢܬܐ ܕܒܢܝ̈ܢܐ ܡܕܝܢܝ̈ܐ ܢܘܟܪܝܐ ؟

ܟܢܘܫܝܐ ܕܦܣ̈ܩܐ

ܚܕ : ܟܢܘܫܝܐ ܕܦܣ̈ܩܐ ܕܐܝܬ ܠܗܘܢ ܫܘܝ̈ܐ

$\frac{١}{٣} + \frac{١}{٣} = \frac{٢}{٣}$

$\frac{١}{٩} + \frac{٥}{٩} = \frac{□}{٩}$

$\frac{٥}{١٦} + \frac{٣}{١٦} = \frac{□}{□}$

ܠܡܘܟܣܵܐ ܕܦܪ̈ܝ ܦܪ̈ܩܐ (ܐܘ ܢܦܝܠܐ) ܫܘܝܢ ܡܦܩܢ̈ܐ. ܡܟܪܟ ܡܘܟܣܵܐ ܕܦܪ̈ܫܘܗܝ ܓܠܝ̈ܐ
ܘܫܒܩܝܢ ܠܡܦܩܢ̈ܐ ܒܩܝܡܘܗ.

ܡܬܠܐ : (١)

ܓܡܘܪ ܡܘܟܣ̈ܐ ܕܟܠ ܚܕ ܡܢ ܕܠܬܝܐ :

(ܐ) $\frac{١}{٨} + \frac{٥}{٨}$.

(ܒ) $\frac{١}{٦} + \frac{١}{٦} + \frac{٢}{٦}$.

(ܓ) $\frac{٣}{٦} + \frac{٥}{٦}$.

(ܕ) $٤\frac{١}{٥} + ٢\frac{٣}{٥}$.

(ܗ) $٣\frac{٥}{٩} + ٨\frac{٧}{٩} + ٦\frac{١}{٩}$

ܫܪܝܐ

(ܐ) $\frac{١}{٨} + \frac{٥}{٨} = \frac{١ + ٥}{٨} = \frac{٦}{٨}$

ܘܦܪ̈ܫܐ ܢܝܠܗ ܚܘܒܪܐ ܕܡܘܟܣܐ ܡܝܬܐ ܢܝܠܗ ܒܡܟܪܟܘܗ ܦܫܝܛܐ.

ܗܘܝ ܙܗܝܪܐ ܕܡܫܠܡܝܬ ܕܗܘܐ ܡܘܟܣܐ ܕܡܘܟܣ̈ܐ ܕܦܪ̈ܩܐ ܒܨܘܪܬܐ ܢܦܝܠܐ ܦܫܝܛܬܐ

$$\frac{٦}{٨} = \frac{٦ \div ٢}{٨ \div ٢} = \frac{٣}{٤}$$

$$\frac{١}{٨} + \frac{٥}{٨} = \frac{٦}{٨} = \frac{٣}{٤}$$

(ܒ) $\frac{١}{٦} + \frac{١}{٦} + \frac{٢}{٦} = \frac{١ + ١ + ٢}{٦}$

$$= \frac{٤}{٦} = \frac{٤ + ٢}{٦ + ٢} = \frac{٢}{٣}$$

(ܓ) $\frac{٣}{٦} + \frac{٥}{٦} = \frac{٣ + ٥}{٦} = \frac{٨}{٦}$

ܘܡܘܟܣܐ ܕܝܠܗ ܦܪܫܐ ܢܦܝܠܐ ܡܢ ܚܕ ܘܠܐ ܕܡܟܬܒܝܚ ܠܗ ܒܨܘܪܬܐ ܕܡܢܝܢ̈ܐ ܦܪ̈ܫܐ.

$$\frac{٣}{٦} + \frac{٥}{٦} = \frac{٨}{٦} = ١\frac{٢}{٦}$$

ܗܵܠܹܐ ܕܡܲܟܝܼܚ ܠܡܫܘܼܚ̈ܐ ܒܚܘܼܠܵܩܵܐ ܚܲܕ ܦܫܝܼܛܵܐ ܐܲܝܟ ܕܟܬܝܼܒܵܐ ܠܹܗ

$$\therefore \frac{٣}{٦} + \frac{٥}{٦} = \frac{٨}{٦} = ١\frac{٢}{٦} = ١\frac{١}{٣}.$$

(ܒ) $$٤\frac{١}{٥} + ٢\frac{٣}{٥} = \left(\frac{١}{٥} + \frac{٣}{٥}\right) + (٤ + ٢)$$

ܠܚܘܼܫܒܵܢܵܐ ܕܡܫܘܼܚ̈ܐ ܦܫܝܼܛ̈ܐ ܟܲܢܫܝܼܢ ܚܘܼܫܒܵܢܵܐ ܕܡܫܘܼܚ̈ܐ ܡܢ ܟܲܢܫܝܼܢ ܚܘܼܫܒܵܢܵܐ ܕܡܫܘܼܚ̈ܐ ܒܢ̈ܝܐ.

$$٤\frac{١}{٥} + ٢\frac{٣}{٥} = ٦ + \frac{١ + ٣}{٥} = ٦\frac{٤}{٥}$$

(ܓ) $$٣\frac{٥}{٩} + ٨\frac{٧}{٩} + ٦\frac{١}{٩} = ١٧ + \frac{٥ + ٧ + ١}{٩}$$

$$= ١٧ + \frac{١٣}{٩}$$

$$= ١٧ + ١\frac{٤}{٩}$$

$$= ١٨\frac{٤}{٩}$$

ܕܘܼܪ̈ܫܹܐ (ܐ ܗ - ٨)

١ - ܟܬܘܿܒ ܠܡܫܘܼܚ̈ܐ ܘܲܡܟܝܼܚ ܠܗ ܒܚܘܼܠܵܩܵܐ ܚܲܕ ܦܫܝܼܛܵܐ

(ܐ) $\frac{٥}{٩} + \frac{٢}{٩}$

(ܒ) $\frac{٣}{٧} + \frac{٢}{٧}$

(ܓ) $\frac{١٣}{٢١} + \frac{٥}{٢١}$

(ܕ) $\frac{٢}{١٨} + \frac{٤}{١٨} + \frac{٣}{١٨}$

(ܗ) $\frac{٥}{٢٠} + \frac{٧}{٢٠} + \frac{٣}{٢٠}$

(ܗ) $\frac{٢٥}{١٥٠} + \frac{١٥}{١٥٠}$

(ܘ) $\frac{٧}{٨} + \frac{٥}{٨}$

٢ - ܟܬܘܿܒ ܠܡܫܘܼܚ̈ܐ ܘܲܡܟܝܼܚ ܠܗ ܒܚܘܼܠܵܩܵܐ ܚܲܕ ܦܫܝܼܛܵܐ

(ܐ) $٤\frac{٢}{٧} + ٥\frac{٣}{٧}$

(ܒ) $٨\frac{٣}{٨} + ٧\frac{٥}{٨}$

(ܓ) $١\frac{٣}{٨} + ٩$

(ܕ) $٩\frac{٣}{١٢} + ٦\frac{٥}{١٢}$

(ܗ) $٧\frac{١}{٣} + ٤\frac{٢}{٣} + ٨\frac{١}{٣}$

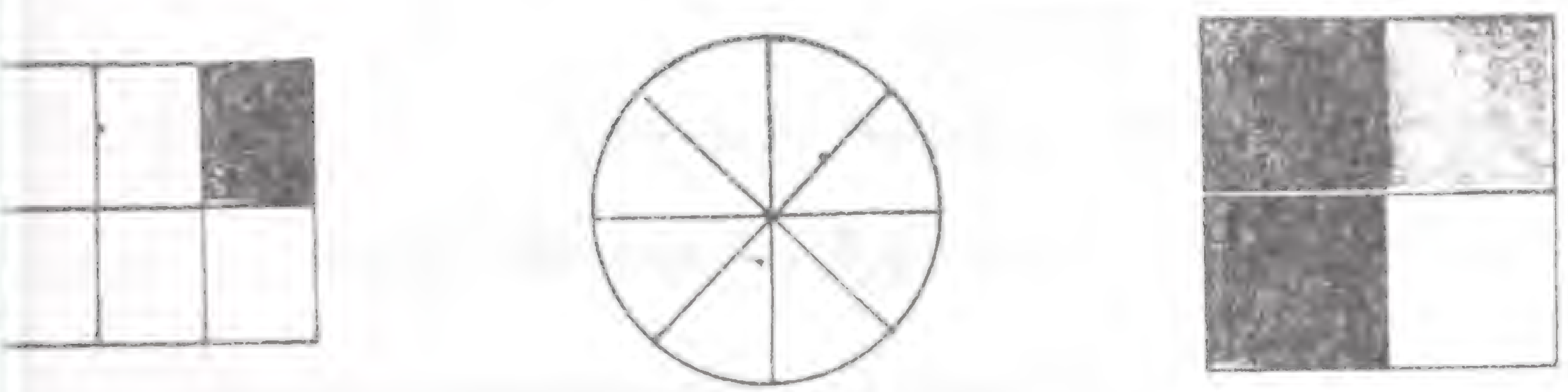
(ܗ) $٢\frac{٥}{٩} + ٧\frac{٧}{٩} + \frac{٦}{٩}$

٣ - ܟܡܐ ܢܘܗܪܐ ܘܡܨܕܪܐ ܕܡܫܡܫܐ ܡܢ ܟܬܒܐ ܚܕܢܝܐ $\frac{1}{5}$ ܡܢܬܐ ܕܝܘܡܐ
ܕܡܠܬܐ ܕܡܫܚܬܗ ܘ $\frac{3}{5}$ ܡܢܬܐ ܕܠܐܠܐ. ܡܢ ܡܢܝܢܐ ܕܫܥܬ̈ܐ ܕܟܠ ܝܘܡܐ ܕܫܒܘܥܐ. ܟܡܐ
ܡܫܘܚܬܐ.

٤ - ܐܢܐ ܐܝܬ ܘܗܘ ܡܫܡܫܐ $\frac{1}{10}$ ܡܢ ܐܬܪܘܬܐ، ܡܫܠܡ ܡܢܝܢܐ ܠܗܘ $\frac{3}{10}$ ܡܢ ܐܬܪܘܬܐ
ܡܢ ܐܬܪܘܬܐ ܡܢ ܚܕ ܕܡܫܡܫܐ ܘܡܢܝܢܐ.
ܟܡܐ ܐܝܬ ܘܗܘ ܡܢܝܢܐ ܕܠܐܠܐ؟

٥ - ܡܢܝܢܐ ܡܢ ܦܪ̈ܐ ܢܘܗܪܐ $3\frac{1}{4}$ ܡܢܝܢܐ ܘܡܢܝܢܐ ܐܚܪܢܐ ܡܢ ܕܝܢܐ ܡܫܚܬܐ ܢܘܗܪܐ $\frac{3}{4}$
ܡܢܝܢܐ. ܟܡܐ ܢܘܗܪܐ ܕܟܠܗܘܢ. ܡܢܝܢܐ ܕܡܢܝܢܐ ܘܟܡܐ ܢܘܗܪܐ ܕܡܢܝܢܐ؟

ܚܙܝ : ܟܢܘܫܝ̈ܐ ܕܦܠܓ̈ܐ ܩܛܝܢܐ ܚܕܢܝܐ :



$\frac{1}{4} + \frac{1}{2}$	$\frac{1}{4} + \frac{3}{8}$	$\frac{1}{6} + \frac{2}{3}$
$= \frac{1}{4} + \frac{\square}{4}$	$= \frac{\square}{8} + \frac{3}{8}$	$= \frac{1}{6} + \frac{\square}{6}$
$= \frac{\square}{4}$	$= \frac{\square}{8}$	$= \frac{\square}{6}$

ܠܟܢܘܫܝ̈ܐ ܕܦܠܓ̈ܐ ܩܛܝܢܐ ܚܕܢܝܐ ܕܠܐ ܫܘܝܐ ܡܫܘܚܬܐ ܘܠܗܘܢ ܠܚܕܢܝܐ ܡܢ ܡܫܘܚܬܐ
ܠܦܠܓ̈ܐ ܕܫܘܝܐ ܚܕܢܝܐ ܠܗܘܢ، ܚܕܢܝܐ ܕܟܠ ܚܕ ܡܢܗܘܢ ܠܫܘܝܐ ܡܫܘܚܬܐ ܘܠܗܘܢ ܘܟܕ
ܚܫܠ ܟܢܘܫܐ ܠܟܢܘܫܝ̈ܐ ܕܦܠܓ̈ܐ ܚܕܢܝܐ ܚܕܢܝܐ.

ܦܘܠܚܢܐ : (٢)

ܓܡܘܪ ܠܟܢܘܫܝ̈ܐ ܕܟܠ ܚܕ ܕܠܗܠ

(ܐ) $\frac{1}{5} + \frac{3}{10}$ (ܒ) $\frac{7}{8} + \frac{5}{6}$

(ܓ) $\frac{5}{9} + \frac{2}{3} + \frac{5}{6}$ (ܕ) $14\frac{3}{4} + 9\frac{2}{3}$

ܥܒ̈ܕܐ

$\text{؟} = \quad \frac{٣}{١٠} + \frac{١}{٥}$ (ܕ)

$٥ = \quad ٥$

$٢ \times ٥ = \quad ١٠$

$١٠ = ٢ \times ٥ =$ ܠ.ܡ.ܘ

$\frac{١}{٢} = \frac{٥}{١٠} = \frac{٣}{١٠} + \frac{٢}{١٠} = \quad \frac{٣}{١٠} + \frac{١}{٥}$

$\text{؟} = \quad \frac{٥}{٦} + \frac{٧}{٨}$ (ܗ)

$٢ \times ٢ \times ٢ = \quad ٨$

$٣ \times \quad ٢ = \quad ٦$

$٢٤ = ٣ \times ٢ \times ٢ \times ٢ =$ ܠ.ܡ.ܘ

$١\,\frac{١٧}{٢٤} = \frac{٤١}{٢٤} = \frac{٢٠}{٢٤} + \frac{٢١}{٢٤} = \quad \frac{٥}{٦} + \frac{٧}{٨}$

$\text{؟} = \quad \frac{٥}{٦} + \frac{٢}{٣} + \frac{٥}{٩}$ (ܘ)

$٣ \times ٣ = \quad ٩$

$٣ = \quad ٣$

$٢ \times ٣ = \quad ٦$

$١٨ = ٢ \times ٣ \times ٣ =$ ܠ.ܡ.ܘ

$\frac{\square}{١٨} + \frac{\square}{١٨} + \frac{\square}{١٨} = \quad \frac{٥}{٦} + \frac{٢}{٣} + \frac{٥}{٩}$

$= \qquad \frac{\square}{١٨} =$

$\text{؟} = \quad ٩\,\frac{٢}{٣} + ١٤\,\frac{٣}{٤}$ (ܙ) ܠ.ܡ.ܘ ܠܡܢ̈ܝܢܐ ٤ ، ٣ ܗܘ ١٢

$(٩ + ١٤) + (\frac{٨}{١٢} + \frac{٩}{١٢}) = ٩\,\frac{٨}{١٢} + ١٤\,\frac{٩}{١٢} = \quad ٩\,\frac{٢}{٣} + ١٤\,\frac{٣}{٤}$

$= ٢٣ + \frac{٨ + ٩}{١٢}$

$$= \frac{١٧}{١٢} + ٢٣$$

$$= \frac{٥}{١٢}\,١ + ٢٣$$

$$= \frac{٥}{١٢}\,٢٤$$

ܕܘܪܫܐ (٨ - ٥ ب)

ܓܡܘܥ ܠܡܢܝܢܐ ܕܗܠܝܢ ܕܠܬܚܬ ܘܫܒܘܩ ܠܗ ܒܨܘܪܬܐ ܦܫܝܛܬܐ :

(١) $\frac{٢}{٣} + \frac{١}{٦}$

(٢) $\frac{٥}{٧} + \frac{٣}{٢١}$

(٣) $\frac{٤}{٩} + \frac{١١}{١٨}$

(٤) $\frac{٢}{٥} + \frac{١}{٢٠}$

(٥) $\frac{١}{٣} + \frac{٢}{٥}$

(٦) $\frac{٤}{٧} + \frac{٢}{٥}$

(٧) $\frac{٥}{٩} + \frac{٣}{٤}$

(٨) $٤\frac{٥}{٩} + ٢\frac{١}{٦}$

(٩) $٧\frac{١}{٥} + ٢\frac{٢}{٣}$

(١٠) $٥\frac{١}{٢} + ٧\frac{١}{٣}$

(١١) $\frac{١}{٢} + \frac{١}{٣} + \frac{١}{٤}$

(١٢) $٣\frac{٢}{٣} + ٥\frac{١}{٤} + ٧\frac{١}{٢}$

(١٣) $\frac{٥}{٦} + ٣\frac{٨}{٩}$

(١٤) $٧\frac{٧}{٨} + \frac{١}{٢} + ٨\frac{٥}{٦}$

ܫܪܝ ܠܫܘܐܠܐ ܕܠܬܚܬ :

١ - ܘܪܝ ܟܠܗ ܢܣܒܐ ܫܩܠܐ ܕܦܪܣܐ ܣܘܪܝܐ $٢\frac{٣}{٧}$ ܩܝܠܘܬܐ، ܘܪܝ ܟܠܗ $٣\frac{٢}{٥}$ ܩܝܠܘܬܐ ܡܢ ܐܪܥܐ ܕܒܝܬܗ . ܟܡܐ ܩܝܠܘܬܐ ܘܪܝ ܟܠܗ ܢܣܒܐ ؟

٢ - ܫܩܠܗ ܗܘܐ ܠܦܘܠܚܢܐ ܒ $\frac{١}{٦}$ ܫܥܬܐ، ܘܟܬܒܢܘܬܗ ܢܣܒ ܒ $\frac{١}{٥}$ ܫܥܬܐ. ܐܝܟܘ ܫܘܠܡܐ ܡܢ ܒܬܪ ܕܡܫܬܡܫܝ ܒܗܘܢ ܬܪܬܝܢ ܦܘܠܚܢܐ. ܘܟܡܐ ܡܢ ܫܥܬܐ ܫܘܠܡܐ ܕܬܪܘܝܗܘܢ ܦܘܠܚܢܐ.

٣ - ܐܠܗܐ ܫܒܩܐ ܡܢ ܒܝܬܐ ܝܘܡܐ ܕܚܕܒܫܒܐ $٢\frac{٣}{٤}$ ܩܝܠܘܓܪܡܐ، ܝܘܡܐ ܕܬܪܝܢܒܫܒܐ $١\frac{٥}{٦}$ ܩܝܠܘܓܪܡܐ، ܝܘܡܐ ܕܬܠܬܒܫܒܐ $٣\frac{١}{٣}$ ܩܝܠܘܓܪܡܐ. ܟܡܐ ܟܘܠܗܘܢ ܕܝܘܡܬܐ ܕܫܒܩܬܗ ܫܒܩܐ ؟

٤ - ܡܘܪܟܐ ܕܐܪܥܐ $\frac{٥}{٨}$ ܩܝܠܘܬܐ ܘܡܘܪܟܐ ܕܐܪܥܐ $\frac{٤}{٥}$ ܩܝܠܘܬܐ. ܐܝܟܘ ܕܪܝܫ ܡܢ ܐܚܪܢܐ. ܘܟܡܐ ܟܘܠܗܘܢ ܕܡܘܪܟܐ

(٨-٧) ܒܘܨܪܐ ܕܦܠܓ̈ܘܬܐ :-

ܬܘܪ̈ܓܡܐ

ܐܫܟܚ ܠܡܘܬܪܐ ܘܦܫܛ ܠܗܘܢ ܒܨܘܪܬܐ ܕܡܨܐ ܕܡܬܦܫܛܐ

(١) $\frac{٥}{٧} - \frac{٢}{٧}$ (٢) $\frac{١}{٢} - \frac{١}{٣}$

(٣) $١٧\frac{٣}{٥} - ١٢\frac{١}{٣}$ (٤) $٨ - ٣\frac{١}{٦}$

(٥) $٩\frac{١}{٣} - ٤\frac{٥}{٧}$

ܫܪ̈ܝܐ

(١) $\frac{٥}{٧} - \frac{٢}{٧} = \frac{٥ - ٢}{٧} = \frac{٣}{٧}$

> ܠܒܘܨܪܐ ܕܦܠܓ̈ܘܬܐ ܕܐܝܬ ܠܗܘܢ ܡܟܝܠܬܐ، ܡܒܨܪܝܢ ܠܡܢܝܢ̈ܐ ܘܡܢܛܪܝܢ ܠܡܟܝܠܬܐ ܕܐܝܬ ܠܗ.

(٢) $\frac{١}{٢} - \frac{١}{٣} = ؟$

ܠ . ܡ . ܫ ܠܡܢܝܢ̈ܐ ٢ ، ٣ ܐܝܬܘܗܝ ٦

$\frac{١}{٢} - \frac{١}{٣} = \frac{٣}{٦} - \frac{٢}{٦}$

$= \frac{٣ - ٢}{٦} = \frac{١}{٦}$

(٣) $١٧\frac{٣}{٥} - ١٢\frac{١}{٣} = ١٧\frac{٩}{١٥} - ١٢\frac{٥}{١٥}$

$= ٥\frac{٩ - ٥}{١٥} = ٥\frac{٤}{١٥}$

(٤) $٨ - ٣\frac{١}{٦} = ٧\frac{٦}{٦} - ٣\frac{١}{٦} = ٤\frac{٥}{٦}$.

(٥) $٩\frac{١}{٣} - ٤\frac{٥}{٧} = ٩\frac{٧}{٢١} - ٤\frac{١٥}{٢١} = ٨\frac{٢٨}{٢١} - ٤\frac{١٥}{٢١} = ٤\frac{١٣}{٢١}$

ܕܘܪ̈ܫܐ (٨ - ٦)

ܐܫܟܚ ܠܡܦܪ̈ܫܐ ܘܟܬܘܒ ܠܗ ܒܨܘܪܬܐ ܐܙܥܘܪ ܦܫܝܛܬܐ

(١) $٧\frac{٥}{٦} - ٣\frac{٣}{٥}$

(٢) $٩\frac{٤}{٥} - ٣\frac{٢}{٣}$

(٣) $٥\frac{١}{٤} - \frac{٣}{٤}$

(٤) $٤\frac{١}{٩} - ٢\frac{٧}{٩}$

(٥) $١\frac{١}{٢} - \frac{٧}{١٢}$

(٦) $٥\frac{١}{٢} + ٧\frac{١}{٣}$

(٧) $٣\frac{١}{٤} + \frac{٢}{٣}$

(٨) $٧\frac{٩}{١٦} - ٥\frac{٣}{٤}$

(٩) $١٨ - ٧\frac{٣}{٨}$

(١٠) $(٤\frac{١}{٢} + ٣\frac{١}{٣}) - ٢\frac{٥}{٦}$

(١١) $٢٩\frac{٨}{٩} - (٢\frac{١}{٣} + ٧\frac{١}{٦})$

(١٢) $(٢\frac{٣}{٥} + ٣\frac{١}{١٠}) - (\frac{١}{٢} + ١\frac{١}{٤})$

ܫܐܠ̈ܬܐ ܠܡܘܬܒ̈ܐ ܕܪ̈ܫܐ

١ - ܦܠܓܠܗ ܫܘܥܝܐ ܘܦܘܪܫܐ ܕܡܫܬܡܫܝܢ ܒܗ ٩ ܫܥ̈ܐ. ܐܢ ܫܩܠ ܠܗ ܫܘܥܝܐ $\frac{٢}{٥}$ ܫܥ̈ܐ ܘܫܒܩ ܠܗ ܦܘܪܫܐ ܠܦܠ̈ܚܐ، ܐܫܟܚ ܠܡܢܝܢܐ ܕܫܥ̈ܐ ܕܫܩܠ ܠܗ ܦܘܪܫܐ.

٢ - ܕܪܫܬܐ ܕܬܘܠܡܕ̈ܐ ܡܫܬܡܫܬܐ ܒܠܒܢ̈ܐ ... ܟܝܠܘ. ܐܫܟܚ ܠܡܟܝܠܐ ܕܐܫܬܪܝ.

٣ - ܡܘܬܒ ܠܗ ܒܚܘܠܐ $٢٤\frac{١}{٢}$ ܟܝܠܘܡܝܛܪ̈ܐ ܡܢ ܡܕܝܢܬܐ ܥܕ ܩܪܝܬܐ ܦܫܝܛܬܐ. ܐܢ ܡܫܘܚܬܐ ܕܚܕ ܡܘܬܒ ܐܚܪܢܐ ܝܠܗ $١٠\frac{٣}{٨}$ ܟܝܠܘܡܝܛܪ̈ܐ. ܟܡܐ ܟܝܠܘܡܝܛܪ̈ܐ ܡܢ ܡܕܝܢܬܐ ܡܘܬܒ ܠܗ ܒܚܘܠܐ ܐܚܪܢܐ ܝܬܝܪܐ؟

٤ - ܬܘܠܡܝܕܐ ܐܚܕ $\frac{١}{٣}$ ܡܢ ܟܠ ܕܒܝܬܐ ܡܢ ܟܬܒ̈ܐ ܕܡܕܪܫܬܐ ܠܩܪܝܬܐ ܘܬܘܠܡܝܕܐ $\frac{٣}{٨}$ ܡܢ ܟܠ ܕܒܝܬܐ ܠܐܚܪܢܐ. ܐܫܟܚ ܠܡܢܝܢܐ ܘܫܪܟܐ ܟܠ ܕܐܚܕܝܢ ܐܚܪܢ̈ܐ ܡܢ ܟܬܒ̈ܐ.

(٨ – ٨) ܥܘܼܦܵܦܵܐ ܕܦܸܠܓܹ̈ܐ

$\frac{١}{٣}$ ܕܓܡܝܼܪܬܵܐ ܘܦܝܼܫܬܵܐ

$\frac{١}{٣}$

$\frac{١}{٢}$ ܡܼܢ $\frac{١}{٣}$ ܘܦܝܼܫܬܵܐ ܐܸܬܬܵܐ

$\frac{١}{٣} \times \frac{١}{٢}$

$\frac{١}{٦}$ ܘܦܝܼܫܬܵܐ ܐܸܬܬܵܐ

$\frac{١}{٦} = \frac{١}{٣} \times \frac{١}{٢}$

ܠܥܘܼܦܵܦܵܐ ܕܬܪܹܝܢ ܦܸܠܓܹ̈ܐ ܐܵܘ ܝܲܬܝܼܪ، ܥܵܒ݂ܕܝܼܢ ܥܘܼܦܵܦܵܐ ܕܡܸܢܝܵܢܹ̈ܐ ܘܥܘܼܦܵܦܵܐ ܕܦܸܠܓܹ̈ܐ

$$\frac{١}{٤} \times \frac{١}{٦} = \frac{١ \times ١}{٤ \times ٦} = \frac{١}{٢٤}$$

$$\frac{٢}{٣} \times \frac{١}{٥} = \frac{٢ \times ١}{٣ \times ٥} = \frac{٢}{١٥}$$

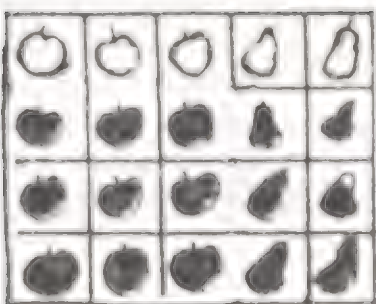
$$\frac{٣}{٤} \times \frac{٥}{٦} = \frac{٣ \times ٥}{٤ \times ٦} = \frac{١٥}{٢٤}$$

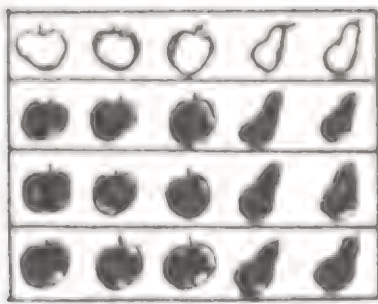
$$= \frac{١٥ \div ٣}{٢٤ \div ٣} = \frac{٥}{٨}$$

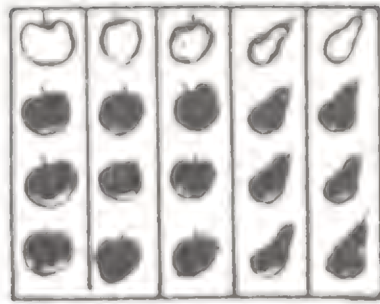
$$\frac{١}{٢} \times \frac{٢}{٣} \times \frac{٥}{٦} = \frac{١ \times ٢ \times ٥}{٢ \times ٣ \times ٦}$$

$$= \frac{١ \times ٥}{٣ \times ٦} = \frac{٥}{١٨}$$

ܘܗܵܟ݂ܵܢܵܐ.







$\frac{3}{5}$ ܐܚ̈ܝܢܐ ܕܡܫܘܚܬܐ $\frac{3}{4}$ ܐܚ̈ܝܢܐ ܕܡܫܘܚܬܐ ܗܫܘܬܐ $\frac{9}{20}$ ܐܚ̈ܝܢܐ ܕܡܫܘܚܬܐ ܗܫܘܬܐ

$$\frac{3}{5} \times \frac{3}{4} = \frac{9}{20}$$

ܕܘܪ̈ܫܐ (٢٧-٨)

ܐܫܟܚ ܘܟܬܘܒ ܠܡܦܩ̈ܢܐ ܕܡܘܢܩܐ ܐܝܟ ܦܫܝܛܘܬܐ

$\frac{3}{4} \times \frac{5}{9}$	$\frac{3}{8} \times \frac{4}{5}$	$\frac{5}{12} \times \frac{3}{10}$
$\frac{2}{3} \times \frac{3}{4}$	$\frac{1}{2} \times \frac{3}{7}$	$\frac{5}{6} \times \frac{3}{4} \times \frac{2}{3}$
$\frac{3}{4} \times \frac{8}{9}$	$\frac{3}{8} \times \frac{4}{3}$	$\frac{5}{16} \times \frac{4}{15}$
$\frac{2}{3} \times \frac{3}{5} \times \frac{4}{7}$	$\frac{5}{12} \times \frac{3}{10} \times \frac{4}{7}$	$\frac{5}{6} \times \frac{2}{3} \times \frac{3}{7}$

ܫܪܝ ܠܫܘ̈ܐܠܐ ܕܐܬܝ

١ - ܡܛܠܝܬܐ ܦܠܛܘܗ̄ $\frac{3}{4}$ ܫܥ̈ܬܐ ܒܐܘܪܚܐ ܠܡܕܪܫܬܐ، ܐܢܐ ܡܛܠܝܬܐ ܫܠܝܡܘܬܐ ܦܠܓܐ ܕܐܘܪܚܐ. ܫܩܘܠ ܠܡܢܝܢܐ ܕܫܥ̈ܬܐ ܕܡܛܠܝܬܐ ܫܠܝܡܘܬܐ ܠܐܘܪܚܐ ܠܡܕܪܫܬܐ.

٢ - ܗܘܐ ܐܝܠܢܐ $\frac{3}{4}$ ܕܦܠܓܘܬܐ، ܫܩܠܗ ܡܢܗܘܢ $\frac{2}{3}$ ܡܢ ܗܘ ܕܐܝܬ ܡܢ ܐܝܠܢܐ ܒܦܠܓܘܬܐ ܫܩܘܠ ܚܘܫܒܐ ܕܫܩܠܗ ܡܢܗܘܢ ܡܢ ܐܝܠܢܐ. ܟܡ ܐܫܟܚ ܠܡܢܝܢܐ ܦܠܓ̈ܐ.

٣ - ܦܝܪܐ ܘܐܝܬܘܬܐ $\frac{5}{6}$ ܕܫܢܬܐ ܒܡܘܬܐ. ܐܢ ܦܝܪܐ ܕܝܠܗ ܗܘ ܕ $\frac{3}{4}$ ܕܡܢܝܢܐ ܘܐܝܬܘܬܐ ܗܘܐ ܒܕܘܟܬܐ. ܐܫܟܚ ܚܘܫܒܐ ܕܗܘ ܦܝܪܐ ܘܐܝܬܘܬܐ ܡܢ ܫܢܬܐ ܒܕܘܟܬܐ.

ܟܘܼܦ̈ܠܵܐ ܕܡܢܵܘ̈ܬܵܐ ܒܡܢܝܵܢܵܐ

$$\frac{٣}{٢} = \frac{١}{٢} + \frac{١}{٢} + \frac{١}{٢} = \frac{١}{٢} \times ٣$$

$$\frac{٣}{٢} = \frac{١ \times ٣}{٢ \times ١} = \frac{١}{٢} \times \frac{٣}{١} = \frac{١}{٢} \times ٣$$

$$\frac{٣ + ٣ + ٣ + ٣}{٥} = \frac{٣}{٥} + \frac{٣}{٥} + \frac{٣}{٥} + \frac{٣}{٥} = \frac{٣}{٥} \times ٤ \ ،$$

$$٢\frac{٢}{٥} = \frac{١٢}{٥} = \frac{٣ \times ٤}{٥} =$$

$$\frac{٣ \times ٤}{٥ \times ١} = \frac{٣}{٥} \times \frac{٤}{١} = \frac{٣}{٥} \times ٤$$

ܘܗܵܟ݂ܵܐ

ܡܘܼܪ̈ܢܵܐ:

ܡܲܠܸܐ ܐܲܝܟ ܕܠܗܘ ܡܫܘܚܬܐ

$$١\frac{٧}{٨} = \frac{١٥}{٨} = \frac{٥ \times ٣}{٨ \times ١} = \frac{٥}{٨} \times \frac{٣}{١} = \frac{٥}{٨} \times ٣ \quad (١)$$

$$= \frac{\square}{\square} = \frac{\square \times \square}{٣ \times \square} = \frac{٢}{٣} \times \frac{٥}{\square} = \frac{٢}{٣} \times ٥ \quad (٢)$$

$$= \frac{\square}{\square} = \frac{\square \times \square}{\square \times \square} = \frac{\square}{\square} \times \frac{٢١}{\square} = \frac{٢}{٩} \times ٢١ \quad (٣)$$

ܟܘܼܦ̈ܠܵܐ ܕܡܢܝܵܢܵܐ ܒܡܢܵܘ̈ܬܵܐ

$$٨ = ٢ \div ١٦ = ١٦ \text{ ܡܢ } \frac{١}{٢}$$

$$٨ = \frac{٨}{١} = \frac{١٦ \div ٢}{٢ \div ٢} = \frac{١٦}{٢} = \frac{١٦}{١} \times \frac{١}{٢} = ١٦ \times \frac{١}{٢}$$

$$\frac{١}{٣} \text{ ܒ } ١٥ = ١٥ \div ٣ = ٥$$

$$\frac{١}{٣} \times ١٥ = \frac{١}{٣} \times \frac{١٥}{١} = \frac{١٥}{٣} = ٥$$

$$\frac{٣}{٤} \text{ ܒ } ١٦ = \frac{٣}{٤} \times ١٦$$

$$= \frac{٣}{٤} \times \frac{١٦}{١} = \frac{٣ \times ١٦}{٤ \times ١} = \frac{٤٨}{٤}$$

$$= \frac{٤٨ \div ٤}{٤ \div ٤} = \frac{١٢}{١} = ١٢$$

ܘܗܵܕܟ݂ܵܐ

ܬܘܼܪ̈ܓܵܐ

ܡܫܠܡ ܕܝܢ ܠܗ ܠܡܘܦܩܐ

$$(١)\quad \frac{١}{٢} \times ١٢ = \frac{١}{٢} \times \frac{١٢}{١} = \frac{١ \times ١٢}{٢ \times ١} = \frac{١٢}{٢}$$

$$= \frac{١٢ \div ٢}{٢ \div ٢} = \frac{٦}{١} = ٦$$

$$(٢)\quad \frac{١}{٥} \times ٢٥ = \frac{١}{٥} \times \frac{٢٥}{\square} = \frac{١ \times \square}{٥ \times \square} = \frac{\square}{\square} = \square$$

$$(٣)\quad \frac{٣}{٥} \times ٢٠ = \frac{٣}{٥} \times \frac{٢٠}{\square} = \frac{\square \times \square}{\square \times \square} = \frac{\square}{\square}$$

$$= \frac{\square \div ٥}{\square \div ٥} = \frac{\square}{\square} = \square$$

$$(٤)\quad \frac{٢}{٧} \times ٥ = \frac{٢}{٧} \times \frac{\square}{\square} = \frac{\square}{\square} =$$

ܕܘܪܫܐ (٨ – ٧ ب)

ܫܩܘܠ ܡܘܢܝܐ ܗܢܐ ܕܠܬܚܬ ܘܟܬܘܒ ܠܗ ܒܨܘܪܬܐ ܦܫܝܛܬܐ

(١) $٥ \times \frac{١}{٦}$ (٢) $\frac{١}{٨} \times ٧$

(٣) $\frac{١}{٧} \times ٩$ (٤) $٧ \times \frac{٥}{١٤}$

(٥) $١٤ \times \frac{٣}{٤}$ (٦) $\frac{٥}{٩} \times ٦$

ܫܠܡ

(٧) $\frac{\square}{\square} \times \frac{٣}{٥} = \frac{١٢}{٥}$ (٨) $٢ \times \frac{\square}{\square} = \frac{٦}{٧}$

(٩) $٤ \times \frac{\square}{٥} = \frac{١٢}{٥}$ (١٠) $\frac{٣}{٨} \times \frac{\square}{\square} = \frac{٣}{٤}$

(١١) $\frac{\square}{\square} \times \frac{١}{١٤} = \frac{١}{٢}$

ܚܠܘܠ ܠܡܘܫܚܠܦܐ ܕܠܬܚܬ :

١ - ܦܢܝܬܐ ܕܐܝܬ ٤٠ ܬܠܡܝܕܐ ܗܘܝܐ ܡܢ ܬܠܡܝܕܐ ܕܡܕܪܫܬܐ. ܐܢ ܡܘܫܚܠܦܐ ܗܘ $\frac{٤}{٥}$ ܕܝܠܗܘܢ ܟܡܐ ܬܠܡܝܕܐ ܡܘܫܚܠܦܐ ܗܘܐ ܒܦܢܝܬܐ ܕܡܕܪܫܬܐ؟

٢ - ܐܝܬ ܥܡܗ ٣٦ ܕܝܢܪܐ، ܐܢ ܝܗܒ ܠܗ $\frac{٥}{٦}$ ܕܝܠܗܘܢ ܠܚܒܪܗ ܘܫܩܠܗ ܠܟܬܒܐ، ܟܡܐ ܕܝܢܪܐ ܫܩܠܗ ܟܠܗ.

ܡܘܢܝܐ ܕܡܢܝܢܐ ܡܥܪܒܐ :

ܠܡ ܡܘܢܝܐ ܕܡܢܝܢܐ ܡܥܪܒܐ ، ܡܨܝܢ ܠܡܦܠܓܘܬܐ ܡܥܪܒܐ ܒܨܘܪܬܐ ܕܡܦܠܓܘܬܐ ܕܠܐ ܬܪܨܐ ܠܡܘܢܝܐ ܡܥܪܒܐ ܕܡܦܠܓܘܬܐ.

ܬܘܪܨܐ (١)

$٧\frac{١}{٢} \times \frac{٢}{٣} = \frac{١٥}{٢} \times \frac{٢}{٣}$

$= \frac{١٥ \times ٢}{٢ \times ٣} = \frac{٣٠}{٦} = ٥$

ܦܫܛܢܢ ܗܠܝܢ ܠܡܦܩܬܐ ܩܕܡ ܡܢܝܢܐ ܕܡܘܩܕܐ:

$$\frac{٢}{٣} \times ٧\frac{١}{٢} = \frac{٢}{٣} \times \frac{١٥}{٢} = \frac{١}{٣} \times \frac{١٥}{١} = \frac{١}{١} \times \frac{٥}{١} = ٥$$

ܡܬܠܐ (٢)

$$٥\frac{٥}{٨} \times \frac{٣}{٥} = \frac{٤٥}{٨} \times \frac{٣}{٥} = \frac{٩ \times ٣}{٨ \times ١}$$

$$= \frac{٢٧}{٨} = ٣\frac{٣}{٨}$$

ܡܬܠܐ (٣)

$$٥\frac{١}{٤} \times ٤\frac{١}{٣} = \frac{٢١}{٤} \times \frac{١٣}{٣}$$

$$= \frac{٧ \times ١٣}{٤ \times ١} = \frac{٩١}{٤}$$

$$= ٢٢\frac{٣}{٤}$$

ܕܘܪܫܐ (٨ - ٧ ܠ)

ܐܫܟܚ ܠܡܘܢܝܐ ܘܫܘܝ ܠܗ ܒܨܘܪܬܐ ܙܥܘܪܬܐ

(١) $١\frac{١}{٥} \times \frac{٢}{٣}$

(٢) $٢\frac{١}{٤} \times \frac{١}{٦}$

(٣) $\frac{١}{٤} \times ٥\frac{١}{٣}$

(٤) $٥\frac{٢}{٣} \times \frac{١}{٤}$

(٥) $\frac{٣}{٤} \times ٢\frac{٣}{٨}$

(٦) $\frac{٥}{٧} \times \frac{١٤}{١٥}$

(٧) $٥\frac{٢}{٣} \times ١\frac{١}{٢}$

(٨) $٦\frac{٧}{٨} \times ٦\frac{٢}{٥}$

(٩) $٦ \times \frac{٢}{٣} \times \frac{٤}{٥}$

(١٠) $\frac{٤}{٥} \times ٣\frac{٢}{٧}$

(١١) $\frac{٢}{٣} + \frac{٤}{٥} + ٦$

(١٢) $٣\frac{٢}{٧} - \frac{٤}{٥}$

(١٣) $٢ \times \frac{٤}{٥} - \frac{١}{٢}$

(١٤) $(٢\frac{١}{٢} \times ١\frac{٣}{٥}) - ١\frac{١}{٣}$

ܥܒܕ ܠܫܘ̈ܐܠܐ ܕܐ̈ܬܝܢ

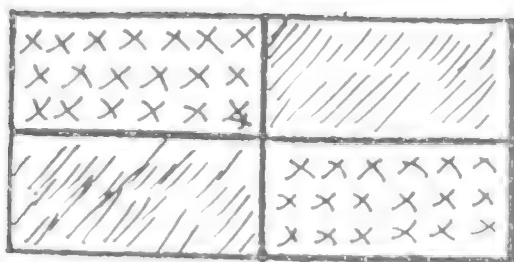
(١ - ܐܪܒܥܐ ܕܦܠ̈ܚܐ ܚܦܪܘ $٧\frac{٣}{٤}$ ܕܩܝ̈ܩܐ، ܟܡܐ ܫܘܐ ܐܪܒܥܐ ܠܦܠܚܝܗܘܢ ܠܡܚܫܐ ١٢ ܝܘܡܝܢ ؟

ܘ ܡܫܚܠܦܘ ܚܠܒܐ ܕܚܠܒܘܢܐ ܕܝܘܡܐ $٣\frac{١}{٥}$ ܕܩܝ̈ܩܐ ܟܡܐ ܩܛܪ ܦܪܘܩܐ ܠܫܒܥܐ ٢٥

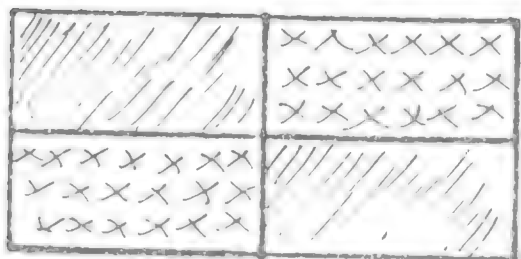
ܒܚܠܒܘܢܐ ܡܢ ܕܐܘܐ ܐܒܥܐ ܕܝܘܡܐ.

ܢܚܬܘ ܐܟܠܐ ܕܦܪܡܐ $\frac{٣}{٤}$ ܡܡܫܚܬܐ ܡܢ ܦܪܡܐ ܚܠܒܐ ܕܡܫܚܬܐ ܡܢܝܗ $\frac{٢}{٥}$ ܕܩܝ̈ܩܐ. ܢܥܒܕ ܚܠܒܐ ܕܐܪܒܥܐ

ܘܝܢ. ܘܕܩܝܩܘܗܝ ܠܐܘܐ ܚܡܫܘܢ ܚܠܒܐ ٥٠ ܕܩܝ̈ܩܐ ܟܡܐ ܒܠܘ ܡܩܝܡܘܗ ؟



٨ - ٦ ܦܠܓܘܬܐ ܕܡܢܝ̈ܢܐ



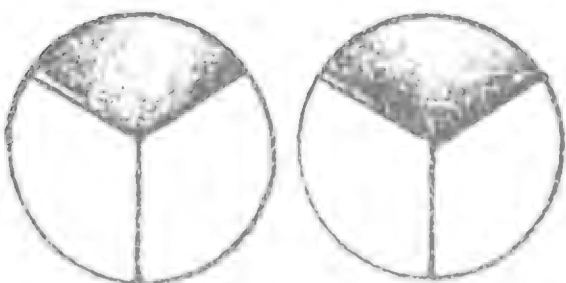
ܥܒܕܐ ܕܦܘܠܓܐ $٢ \div \frac{١}{٤}$

ܢܫܐܠ : ܟܡܐ ܪܒܥܐ ܒܓܘ ٢ ؟

ܘܦܘܪ̈ܫܐ ܐܝܬܝܗ $٢ \times ٤ = ٨$

ܒܗܘܐ $٢ \div \frac{١}{٤} = ٢ \times ٤$

$= ٨$



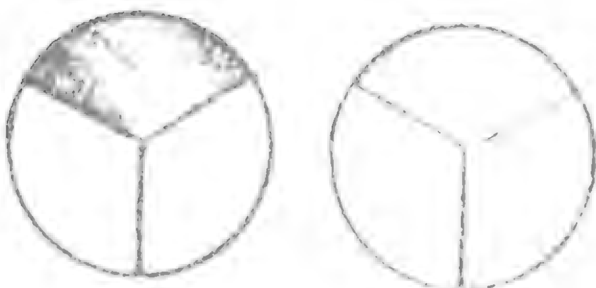
ܠܥܒܕܐ ܕܦܘܠܓܐ $٤ \div \frac{١}{٣}$

نتساءل : كم ثلثاً في ٤ ؟

ܘܦܘܪ̈ܫܐ ܐܝܬܝܗ $٤ \times ٣ = ١٢$

ܒܗܘܐ $٤ \div \frac{١}{٣} = ٤ \times \frac{٣}{١}$

$= ١٢$



ܐܝܟ ܗܘܟܢܐ $٢ \div \frac{١}{٨} = ٢ \times \frac{٨}{١}$

$= ١٦$

، $٤ \div \frac{١}{٥} = ٤ \times \frac{٥}{١}$

$= ٢٠$

ܘܫܪܟܐ . . . .

ܘܡܝܬܝܬܐ ܠܦܠܓܘܬܐ ܕܬܘܢ̈ܒܐ $\frac{٤}{٥} \div \frac{٢}{٥}$ ܟܡܕܐܝܬ



ܟܡܐ ܗܕܝ ܣܘܡܟܐ ܝܠܗ $\frac{٤}{٥}$ ؟

ܘܦܘܠܛܢܐ ܐܢܝ ܝܠܗ ܦܘܪܫܐ ܝܡܠܗ ٢

ܗܕܟܐ ܘܦܝܫ $\frac{٤}{٥} \div \frac{٢}{٥} = \frac{٤}{٥} \times \frac{٥}{٢}$

$= ٢$

ܘܠܦܠܓܘܬܐ ܕܬܘܢ̈ܒܐ $\frac{٩}{٤} \div \frac{٣}{٤}$ ܟܡܕܐܝܬ ܟܡܐ ܗܠܝܐ ܕܦܠܓܐ ܝܠܗ $\frac{٩}{٤}$ ؟ ܘܦܘܪܫܐ ܦܣܘܩܐ ܝܠܗ ܕܬܘܢ̈ܒܐ ܝܡܠܗ ٣

ܗܕܟܐ ܘܦܝܫ $\frac{٩}{٤} \div \frac{٣}{٤} = \frac{٩}{٤} \times \frac{٤}{٣} = ٣$.

ܘܐܢܝ ܡܘܦܩܐ

$$\frac{٣}{٤} \div \frac{٩}{٨} = \frac{٣}{٤} \times \frac{٨}{٩} = \frac{١ \times ٢}{١ \times ٣}$$

$$= \frac{٢}{٣}$$

، $$\frac{٥}{٧} \div \frac{٩}{١٤} = \frac{٥}{٧} \times \frac{١٤}{٩} = \frac{٥ \times ٢}{١ \times ٩}$$

$$= \frac{١٠}{٩} = ١\frac{١}{٩}$$

ܘܚܕ̈ܢܐ . . . . .

ܘܠܘܛܪ̈ܝܬܐ

ܬܘܢ̈ܒܐ ܕܦܠܓܘܬܐ ܥܠ ܦܠܓܐ ܩܝܣ ܝܠܗ ܒܡܘܩܦܐ ܒܡܠܓ̈ܢܐ ܕܬܪܝܢ ܦܠܓܐ.

ܬܘܪ̈ܓܡܐ (١)

(ܐ) $٣ \div \frac{١}{٤} = \frac{٣}{١} \times \frac{٤}{١} = ١٢$ (ܒ) $٦ \div \frac{٢}{٣} = \frac{٦}{١} \times \frac{٣}{٢} = ٩$

(ܓ) $٨ \div \frac{٤}{٥} = \frac{٨}{١} \times \frac{\square}{\square} = \frac{\square}{\square} =$

(ܕ) $١٢ \div ٢\frac{١}{٤} = ١٢ \div \frac{\square}{٤}$

$= \frac{١٢}{١} \times \frac{٤}{\square} = \frac{\square}{\square} =$

(ܗ) $\frac{٧}{٨} \div \frac{٢}{٣} = \frac{٧}{٨} \times \frac{\square}{\square} = \frac{\square}{\square} =$

(ܘ) $\frac{٣}{٤} \div \frac{٣}{٥} = \frac{٣}{٤} \times \frac{\square}{\square} = \frac{\square}{\square} =$

(ܙ) $٢\frac{١}{٢} \div \frac{٣}{٥} = \frac{\square}{٢} \div \frac{٣}{٥}$

$= \frac{\square}{٢} \times \frac{٥}{\square} = \frac{\square}{\square} =$

(ܚ) $\frac{٣}{٤} \div ٦ = \frac{٣}{٤} \times \frac{\square}{٦} = \frac{\square}{\square} =$

(ܛ) $٣\frac{١}{٣} \div ١\frac{١}{٢} = \frac{\square}{٣} \div \frac{\square}{٢}$

$= \frac{\square}{٣} \times \frac{٢}{\square} = \frac{\square}{\square} =$

(ܝ) $٢\frac{١}{٥} \div ٨ = \frac{\square}{٥} \div \frac{\square}{\square}$

$= \frac{\square}{٥} \times \frac{\square}{\square} = \frac{\square}{\square} =$

ܕܘܪ̈ܫܐ (٨-٨)

ܚܫܘܿܒ ܠܡܠܝܬܐ ܕܟܠ ܚܕ ܡܢ ܕܢ̈ܐ

(١) $\frac{١}{٣}$ (٢) $\frac{٦}{٥}$ (٣) $\frac{٥}{٨}$ (٤) $\frac{٥}{١٣}$

(٥) $\frac{٧}{٢}$ (٦) ٩ (٧) ٤

ܦܩܘܕ ܚܘܘܪܐ ܕܦܠܓܘܬܐ ܡܢ ܡܢܝܢ ܠܡܠܝܐ

(١) $٣\frac{١}{٣}$ (٢) $٢\frac{٤}{٥}$ (٣) $٣\frac{١}{٥}$ (٤) $٤\frac{٦}{٧}$

(٥) $١\frac{٥}{٧}$ (٦) $١٤\frac{١}{٢}$ (٧) $٢٠\frac{٣}{٤}$

ܦܫܘܛ ܗܢܐ ܕܪ̈ܫܐ

(١) $\frac{٢}{٣} \div ١٢ = \frac{٢}{٣} \times \frac{\square}{\square} = \frac{\square}{\square} =$

(٢) $١٠ \div \frac{٣}{٥} = \frac{١٠}{\square} \times \frac{\square}{\square} = \frac{\square}{\square} =$

(٣) $\frac{٥}{٦} \div \frac{٦}{٥} = \frac{٥}{٦} \times \frac{\square}{\square} = \frac{\square}{\square} =$

(٤) $٩ \div ٢\frac{١}{٤} = ٩ \div \frac{\square}{٤}$

$= ٩ \times \frac{\square}{\square} = \frac{\square}{\square} =$

(٥) $٣\frac{٢}{٣} \div ٥ = \frac{\square}{٣} \div \frac{٥}{\square}$

$= \frac{\square}{٣} \times \frac{\square}{٥} = \frac{\square}{\square} =$

(٦) $٤\frac{٣}{٥} \div \frac{٢}{٥} = \frac{\square}{٥} \div \frac{٢}{٥}$

$= \frac{\square}{٥} \times \frac{\square}{\square} = \frac{\square}{\square} =$

(٧) $١\frac{١}{٥} \div ٢\frac{١}{٣} = \frac{\square}{٥} \div \frac{\square}{٣}$

$= \frac{\square}{٥} \times \frac{٣}{\square} = \frac{\square}{\square} =$

ܐܚܘܕ ܡܘܢܚܐ ܟܠܐ ܕܪ̈ܫܐ ܘܦܩܘܕ ܠܗ ܒܝܘܢܐ ܢܡܪ ܟܕܫܘܬܐ

(١) $٦ \div \frac{١}{٥}$ (٢) $٥ \div \frac{٢}{٣}$ (٣) $\frac{٣}{٤} \div \frac{٢}{٥}$

(٤) $٥ \div \frac{٥}{٦}$ (٥) $\frac{٤}{٥} \div ٢$ (٦) $\frac{٣}{٤} \div ١$

(٧) $\frac{٥}{٩} \div \frac{٥}{٩}$ (٨) $\frac{٢}{٥} \div ١٥$ (٩) $٩ \div ٢\frac{١}{٤}$

(١٠) $٧\frac{١}{٢} \div \frac{٥}{٢}$ (١١) $١\frac{٧}{٨} \div \frac{٣}{٨}$ (١٢) $٧\frac{١}{٢} \div ٤$

(١٣) $٤\frac{٣}{٤} \div ٢\frac{١}{٢}$ (١٤) $٢\frac{٧}{٩} \div ٤\frac{١}{٦}$ (١٥) $٠ \div ٥\frac{١}{٤}$

ܐܸܥܒܸܕ ܗܘܼܢܵܝܹܐ ܗܵܠܹܝܢ ܕܬ݂ܵܠܹܐ ܘܚܲܫܸܒ݂ ܠܗܘܿܢ ܒܐܘܼܪܚܵܐ ܢܲܦܸܩ ܚܲܫܒܵܢܵܐ

(١) $١\frac{٢}{٣} \times ١\frac{١}{٣}$ (٢) $٢\frac{١}{٥} \times ٣\frac{٣}{٤}$

(٣) $٢\frac{٢}{٣} \div ٢\frac{٢}{٣}$ (٤) $٢\frac{٢}{٣} \times ٢\frac{٢}{٣}$

(٥) $١٢ \times ٥\frac{١}{٣}$ (٦) $٢\frac{٤}{٥} \div ١\frac{٣}{٤}$

(٧) $٣\frac{١}{٢} \div \frac{٤}{٥}$ (٨) $٣\frac{١}{٢} + \frac{٤}{٥}$

(٩) $٨\frac{٢}{٣} - ٤\frac{١}{٢}$ (١٠) $١٦\frac{١}{٢} \div ٤\frac{١}{٤}$

(١١) $٦ + ٢\frac{٣}{٥}$ (١٢) $٦ - ٤\frac{٧}{٨}$

(١٣) $١٢\frac{١}{٤} - ٦\frac{٥}{٧}$ (١٤) $١٢\frac{١}{٤} \div ١\frac{٣}{٤}$

ܫܪܝܼ ܠܫܘܼܐܵܠܹ̈ܐ ܕܬ݂ܵܠܹܐ

١ - ܕܝܼܪܟ݂ܘܼ ܐܲܕܸܫ ܝܗܵܘܠܹܐ ܕܟܲܪ̈ܡܹܐ ܡܵܕܪܵܐ $\frac{٤}{٥}$ ܡܵܢܬܵܐ ܘܟܠܲܝܠܲܗ ܠܩܵܛܹܐ ܘܒܘܼܬܪܵܐ ܡܵܕܪܵܐ ܕܟܠ ܚܲܕ ܡܸܢܢܵܘܗܝ $\frac{١}{٥}$ ܡܵܢܬܵܐ. ܚܲܫܸܒ݂ ܠܡܸܢܝܵܢܵܐ ܕܩܵܛܹܐ.

٢ - ܐܸܣܠܸܟ݂ ٩ ܚܲܒ݂ܠܹܐ ܡܢ ܝܲܬܝܼܪ $٦\frac{٣}{٤}$ ܚܲܒ݂ܠܵܐ ܟܠ ܚܲܕ݂ ܚܲܒ݂ܠܹܐ ܚܲܕܟ݂ܵܐ ܗܘܵܐ ܚܲܒ݂ܠܵܐ. ܐܸܥܒܸܕ ܠܚܘܼܫܵܒ݂ܵܐ ܕܚܲܕ݂ ܚܲܒ݂ܠܵܐ.

٣ - ܐܸܬ݂ܦܲܠܲܓ݂ ܚܲܫܘܼܒܵܐ $\frac{٣}{٥}$ ١٢٠ ܕܝܼܢܵܪܹܐ ܚܲܕ݂ܘܼܬܵܐ ܠܬܲܠܬܵܐ ܦܲܪܨܘܿܦܹܐ. ܐܲܡܝܼܢ ܦܫܝܼܛܵܐ ܕܟܠ ܚܲܕ݂ ܡܸܢܢܵܘܗܝ ܕܝܼܢܵܪܹܐ

٤ - ܐܸܬ݂ܦܲܠܓ݂ܘܼ ܩܲܕ݂ܡܵܐ ܕܙܲܕܝܼܩܵܐ ܡܲܝܵܐ $٣٥\frac{١}{٤}$ ܚܲܒ݂ܠܘܿܢܝܵܬܵܐ ܒܝܲܘܡܵܐ ܐܲܚܪܹܢܵܐ ܘܦܲܠܓ݂ܵܐ ܚܲܫܸܒ݂ ܠܡܝܼܬ݂ܘܼܬܵܐ ܕܡܲܝܵܐ ܡܲܠܝܵܬܵܐ ܒܚܲܕ݂ ܝܲܘܡܵܐ.

ܦܘܫܩܐ ܡܫܟܚܢܐ؛ ܡܢܝܢܐ ܒܝܘܪܬܐ ܥܣܪܢܝܬܐ

٠,٥ × ٠,٣ = ٠,١٥

ܠܟܘܢ

٠,٥ × ٠,٧ = ☐

ܘܠܟܘܢ

ܦܣܘܩܐ ܬܫܝܥܝܐ

ܡܢܝܢ̈ܐ ܬܪ̈ܘܥܐ ܥܣܪ̈ܢܝܐ :

(٩-١) ܩܪ̈ܝܬܐ ܡܢ ܥܣܪܐ

ܡܢܝܢܐ ܕܡܫܘܚܬܗ ١٠ ܩܪܝܐ ܦܠܓܐ ܕܡܢܝܢܐ ܬܪܘܥܐ ܐܣܟܝܡܐ ܦܫܝܛܐ ܡܢܝܢܐ ܬܪܘܥܐ ܥܣܪܢܝܐ :-

$\frac{١}{١٠}$ ܦܠܓܐ ܡܢܝܢܐ ܬܪܘܥܐ : ٠,١ ܘܦܠܓܐ ܡܢܝܢܐ ܚܕ ܡܢ ܥܣܪܐ

$\frac{٥}{١٠}$ ܦܠܓܐ ܡܢܝܢܐ ܬܪܘܥܐ : ٠,٥ ܘܦܠܓܐ ܡܢܝܢܐ ܚܡܫܐ ܡܢ ܥܣܪܐ

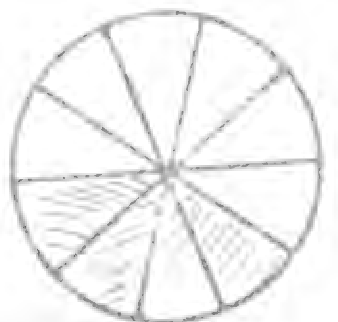
٣ $\frac{٧}{١٠}$ ܦܠܓܐ ܡܢܝܢܐ ܬܪܘܥܐ : ٣,٧ ܦܠܓܐ ܡܢܝܢܐ ܬܠܬܐ ܘܫܒܥܐ ܡܢ ܥܣܪܐ

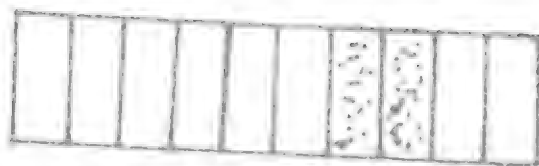
ܘܗܟܢܐ . . . .

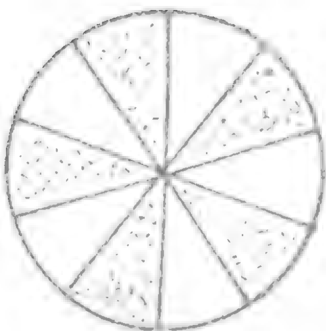
ܘܦܠܓܐ ܡܢܝܢܐ ܕܢܩܕܐ (,) ܡܦܪܫܐ ܥܣܪ̈ܢܝܐ ܠܐ ܩܪ̈ܝܬܐ.

ܡܬܠܐ (١)

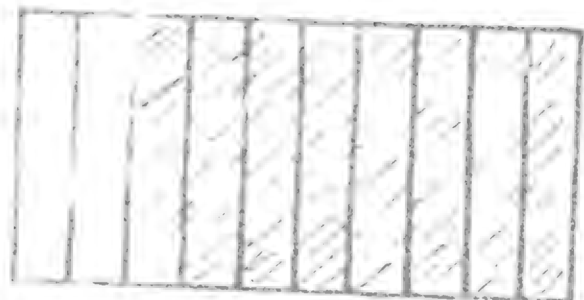
ܟܬܘܒ ܠܡܢܝܢܐ ܕܡܚܘܐ ܦܠܓܐ ܡܨܠܠܐ ܬܪܘܥܐ ܥܣܪܢܝܐ :

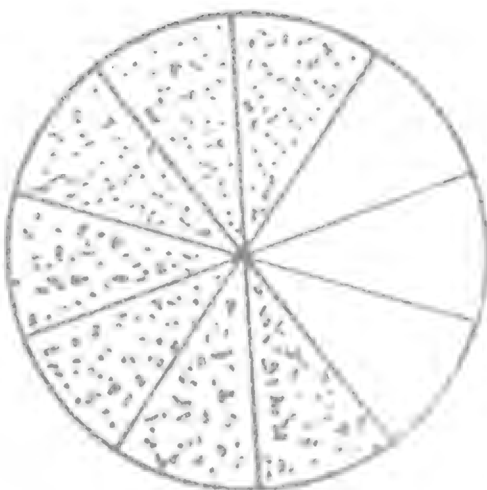


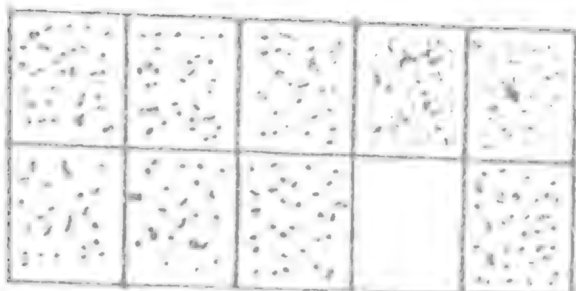




٤ ,







٠,١ ، ٠,٥ ، ٠,٧ ، . . . ܡܢܝܢ̈ܐ ܬܪ̈ܘܥܐ ܥܣܪ̈ܢܝܐ ܐܘ ܡܢܝܢ̈ܐ ܥܣܪ̈ܢܝܐ

ܒܓܘ ١ ، ٢ ، ٦ ، ١٥ ، ٩ ، ١٢٥ ، ... ܡܢܝܢ̈ܐ ܫܠܡ̈ܐ ܡܬܚܙܝܢ ܐܝܠܗ ܟܠ ܚܕ ܡܢܝܗܘܢ ܡܢ ܡܢܝܢܐ ܫܠܡܐ ܘܡܢܝܢ̈ܐ ܥܣܪ̈ܝܐ.

$$٢ + ٠,١ = ٢,١$$

$$١٥ + ٠,٦ = ١٥,٦$$

$$١٢٥ + ٠,٩ = ١٢٥,٩$$

ܥܘܒܕܐ (٢)

ܟܬܘܒ ܐܝܟ ܕܒܘܠܦܢܐ

$٥ \frac{٧}{١٠}$ = ٥,٧ ܒܨܘܪܬܐ ܫܠܡܬܐ = ٥ + ٠,٧

$٦ \frac{٣}{١٠}$ = ☐ ܒܨܘܪܬܐ ܫܠܡܬܐ =

$١٩ \frac{٩}{١٠}$ = ☐ ܒܨܘܪܬܐ ܫܠܡܬܐ =

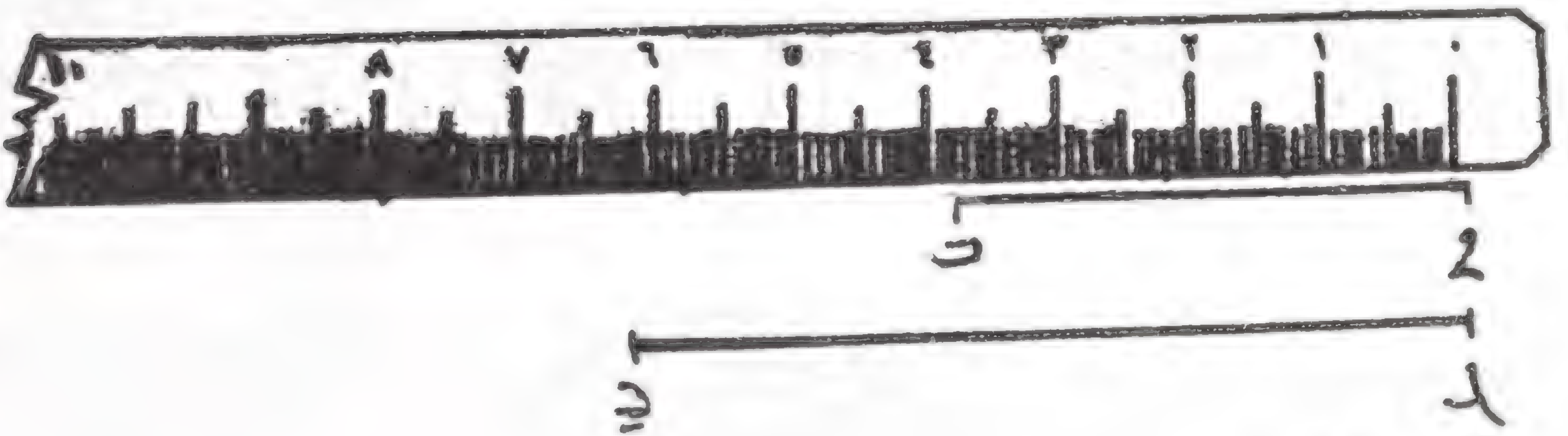
☐ = ٣٥,٣ ܒܨܘܪܬܐ ܫܠܡܬܐ =

ܡܢܝܢܐ ܫܠܡܐ ܡܢ ܡܢܝܢ̈ܐ ܥܣܪ̈ܝܐ ܕܐܝܬܘܗܝ ٣ ، ٢

ܡܢܝܢܐ ܘܥܣܪܝܐ ܡܢ ܡܢܝܢ̈ܐ ܥܣܪ̈ܝܐ ܕܐܝܬܘܗܝ ☐

☐ ܡܢܝܢ̈ܐ ܥܣܪ̈ܝܐ ܕܐܝܬܘܗܝ ١٣,٦

☐ ܡܢܝܢ̈ܐ ܥܣܪ̈ܝܐ ܕܐܝܬܘܗܝ ١٤٧,٥



ܥܘܒܕܐ (٣)

ܐܘܪܟܐ ܕܣܛܪܐ $\overline{ܐܒ}$ = ٣,٩ ܣܡ

ܐܘܪܟܐ ܕܣܛܪܐ $\overline{ܓܕ}$ = ☐ ܣܡ

٧ ܡܠܝܡܝܬܪ̈ܐ = ٠,٧ ܣܡ

٤ ܡܠܝܡܝܬܪ̈ܐ = ☐ ܣܡ

☐ ܡܠܝܡܝܬܪ̈ܐ = ٠,٨ ܣܡ

☐ ܡܠܝܡܝܬܪ̈ܐ = ١,٦ ܣܡ

ܕܘܼܪ̈ܫܐ (٩ - ١)

١ - ܟܬܘܿܒ ܒܡܢܝܢ̈ܐ ܥܣܪ̈ܢܝܐ :

$$\frac{٣}{١٠} \ ، \ ٤\frac{٥}{١٠} \ ، \ ٢٧\frac{٧}{١٠} \ ، \ ٣٥\frac{١}{١٠} \ ، \ ٢٧٥\frac{٦}{١٠}$$

٢ - ܟܬܘܿܒ ܒܡܠܬ̈ܐ ܡܢܝܢ̈ܐ ܗܕܟ̈ܐ :

٠,٢ ، ٧,٥ ، ٤٤,٩ ، ١٥٠,٧ ، ١٨٢٠,١

٣ - ܟܬܘܿܒ ܒܡܢܝܢ̈ܐ ܥܣܪ̈ܢܝܐ:

- ܫܒܥܐ ܥܣܪ̈ܐ
- ܚܕܐ ܡܢ ܥܣܪܐ
- ܬܠܬܐ ܘܚܕܐ ܡܢ ܥܣܪܐ

ܥܣܪܐ ܘܬܠܬܐ ܡܢ ܥܣܪܐ

، ܥܣܪܝܢ ܘܬܡܢܐ ܘܫܒܥ ܡܢ ܥܣܪܐ

٤ - ܦܫܘܿܛ ܒܡܢܝܢ̈ܐ ܥܣܪ̈ܢܝܐ ܐܝܟ ܗܢܐ ܡܬܠܐ :

$$١,٧ = ١\frac{٧}{١٠} = \frac{١٧}{١٠}$$

(ܐ) $\frac{٢١}{١٠}$ =

(ܒ) $\frac{٣٨}{١٠}$ =

(ܓ) $\frac{٥٦}{١٠}$ =

(ܕ) $\frac{٩٨}{١٠}$ =

(٩ - ٢) ܡܢܘ̈ܬܐ ܡܢ ܡܐܐ :

ܡܢܬܐ $\frac{١}{١٠٠}$ ܗܝܼ ܚܕ ܡܢܘܬܐ ܡܢ ܡܐܐ ܡܢܘ̈ܬܐ ܫܘܝ̈ܐ. ܘܡܨܝܬ ܕܟܬܒܬ ܒܡܢܝܢܐ ٠،٠١ ܘܩܪܝܬܐ

٠,٠١ (ܚܕ ܡܢ ܡܐܐ)

ܘܡܢܬܐ $\frac{١٧}{١٠٠}$ ܗܝܼ ܒܟܠ ١٧ ܡܢܘ̈ܬܐ ܡܢ ܡܐܐ ܡܢܘ̈ܬܐ ܫܘܝ̈ܐ، ܘܡܨܝܬ ܕܟܬܒܬ ܒܡܢܝܢܐ

٠,١٧ ܘܩܪܝܬܐ (ܫܒܥܣܪ ܡܢ ܡܐܐ) .

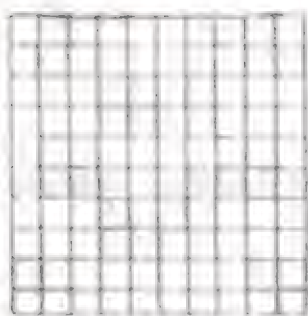
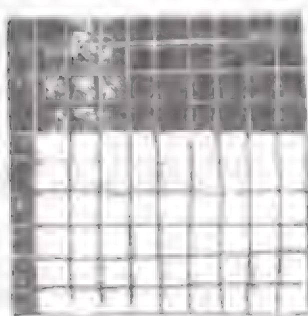
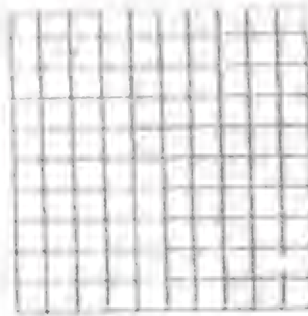
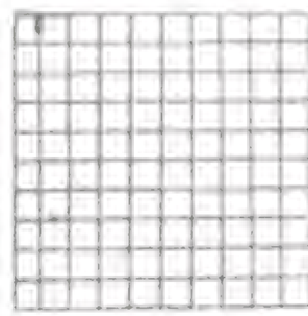
٠,١٥ ، ٠,٢٥ ، ٠,٤٦ ، .... ܡܢܝ̈ܢܐ ܒܡܢܝܢܐ ܥܣܪ̈ܢܝܐ

ܐܦܢ ٢،٢٣ - ٤٥،١٩ - ١٥٢،٧٥ ..... ܡܢܝ̈ܢܐ ܥܣܪ̈ܢܝܐ ܕܟܬܒܬ ܠܗܘܢ ܒܟܠ ܚܕ

ܡܢܗܘܢ ܡܢ ܡܢܬܐ ܥܣܪ̈ܢܝܐ ܘܡܢܝ̈ܢܐ ܫܠܡ̈ܐ.

ܬܘܪܓܡܐ ١

ܟܬܘܒ ܠܡܢܝܢܐ ܕܡܚܘܝܐ ܠܟܠܚܕܐ ܡܫܠܠܬܐ ܒܨܘܪܬܐ ܥܣܪܢܝܬܐ:

ܬܘܪܓܡܐ (٢)

ܚܙܝ ܪܫ ܐܠܗ ܛܘܦܣܐ

١٥ $\frac{٢٧}{١٠٠}$ = ١٥,٢٧ ܒܨܘܪܬܐ ܥܣܪܢܝܬܐ

٥٤ $\frac{٩}{١٠٠}$ = ☐ ܒܨܘܪܬܐ ܥܣܪܢܝܬܐ

☐ = ١٠١,٠٦ ܒܨܘܪܬܐ ܥܣܪܢܝܬܐ

ܚܕ ܫܠܝܡܐ ܘܬܠܬܝܢ ܡܢ ܡܐܐ ܡܢܘܬ̈ܐ ܥܣܪ̈ܢܝܐ ܕܗܘܝܘ ١,٣٠

ܫܬܝܢ ܘܬܡܢܝܐ ܫܠܝܡ̈ܐ ܡܢ ܡܐܐ ܡܢܘܬ̈ܐ ܥܣܪ̈ܢܝܐ ܕܗܘܝܘ 

 ܡܢܘܬ̈ܐ ܥܣܪ̈ܢܝܐ ܕܗܘܝܘ ١٢,٠٥

 ܡܢܘܬ̈ܐ ܥܣܪ̈ܢܝܐ ܕܗܘܝܘ ٠,٩٩

ܚܕ ܡܝܛܪܐ = ١٠٠ ܣܡ

ܗܘܐ ١ ܣܡ ܡܢܬܐ ܡܢ ܡܐܐ ܡܢܘܬ̈ܐ ܫܘ̈ܝܐ

١ ܣܡ = $\frac{١}{١٠٠}$ ܡܢ ܡܝܛܪܐ = ٠,٠١ ܡܢ ܡܝܛܪܐ

ܬܘܪܓܡܐ (٣)

ܚܙܝ ܪܫ ܐܠܗ ܛܘܦܣܐ

٥٠ ܣܡ = $\frac{٥٠}{١٠٠}$ ܡܢ ܡܝܛܪܐ = ٠,٥٠ ܡܝܛܪܐ

٧٤ ܣܡ = [ ] = [ ] ܡܝܬܪܐ

[ ] ܣܡ = [ ] = ٠,٥١ ܡܝܬܪܐ

٢٧٥ ܣܡ = ٢ $\frac{٧٥}{١٠٠}$ ܡܝܬܪܐ = ٢,٧٥ ܡܝܬܪ̈ܐ

٥٦٠ ܣܡ = [ ] = [ ] ܡܝܬܪ̈ܐ

[ ] ܣܡ = [ ] = ٩,١٥ ܡܝܬܪ̈ܐ

ܬܘܪ̈ܓܡܐ (٩ - ٧)

١ - ܟܬܘܒ ܠܡܢܝ̈ܢܐ ܕܫܘ̈ܚܐ ܕܐܬܝܢ ܐܝܟ ܦܠ̈ܓܐ ܡܢܘ̈ܬܐ ܕܫܘܚܐ ܘܦ̈ܠܓܐ ܐܣܪ̈ܝܐ ܡܢܘ̈ܬܐ ܥܣܪ̈ܢܝܬܐ.

٢٧,٢٥

٢٧ $\frac{٢٥}{١٠٠}$ =

ܐ - ܥܣܪܝܢ ܘܫܒܥܐ ܘܥܣܪܝܢ ܘܚܡܫܐ ܡܢ ܡܐܐ [ ] = [ ]

ܒ - ܬܠܬܝܢ ܘܚܕ ܘܫܬܬܥܣܪܐ ܡܢ ܡܐܐ [ ] = [ ]

ܓ - ܫܒܥܝܢ ܘܬܫܥܣܪܐ ܡܢ ܡܐܐ [ ] = [ ]

ܕ - ܬܡܢܬܥܣܪܐ ܘܫܒܥܐ ܫܢܝ̈ܐ ܡܢ ܡܐܐ [ ] = [ ]

ܗ - ܫܒܥܐ ܬܪܝܢ ܘܐܪܒܥܝܢ ܡܢ ܡܐܐ [ ] = [ ]

ܘ - ܡܐܐ ܘܚܕ ܡܢ ܡܐܐ [ ] = [ ]

٢ - ܠܘܡܕܐ ܚܘܪܒܗ ٣٧ ܡܝܬܪ̈ܐ ܘ٧٠ ܣܡ ܘܦܬܝܘܬܗ ٥ ܡܝܬܪ̈ܐ (٥٠) ܣܢܬܝܡܝܬܪܐ ܠܦܘܪܫܗ ܕܠܘܡܕܐ ܒܡܢܝ̈ܢܐ ܥܣܪ̈ܢܝܐ ܘܟܬܘܒ ܡܬܚܐ ܠܦܬܝܘܬܗ ܒܡܢܝ̈ܢܐ ܥܣܪ̈ܢܝܐ.

٣ - ܟܬܘܒ ܠܟܠ ܚܕ ܡܢ ܐܠܝܢ ܥܣܪ̈ܢܝܬܐ.

٧ ܡܝܬܪ̈ܐ ܘ ١٣ ܣܡ = [ ] ܡܝܬܪܐ

١٥ ܣܡ ܘ ٧ ܡܠܡ = [ ] ܣܢܬܝܡܝܬܪܐ

١٠ ܕܣܡ ܘ ٩ ܣܡ = [ ] ܕܝܣܝܡܝܬܪܐ

(٩-٣) ܦܬܘܬ̈ܐ ܡܢ ܐܠܦܐ:

ܐܝܟ ܛܘܦܣܐ ܫܪܪܐ $\frac{١}{١٠٠٠}$ ܡܬܩܪܐ ܦܬܘܬܐ ܡܢ ܐܠܦܐ ܦܬܘܬ̈ܐ ܕܐܝܬ̈ܐ ܘܟܬܝܒ ܒܡܢܝܢܐ ܥܣܘܪܝܐ ٠,٠٠١ ܘܡܬܩܪܐ (ܚܕ ܡܢ ܐܠܦܐ)

ܐܝܟ ܛܘܦܣܐ: $\frac{١٥}{١٠٠٠}$ = ٠,٠١٥ ܘܟܬܝܒ ܡܬܩܪܐ (ܚܡܫܥܣܪ ܡܢ ܐܠܦܐ)

، $\frac{٢٧٥}{١٠٠٠}$ = ٠,٢٧٥ ܘܟܬܝܒ ܡܬܩܪܐ (ܬܪܝܢܡܐܐ ܘܫܒܥܝܢ ܘܚܡܫܐ ܡܢ ܐܠܦܐ)

ܘܥܒ̈ܕܐ

ܠܘܚܐ (١)

ܡܫܡܠܐ ܐܝܟ ܗܘ ܛܘܦܣܐ

ܡܝܬܪܐ = ١٠٠٠ ܡܝܠܝܡܝܬܪܐ

١ ܡܠܡ = $\frac{١}{١٠٠٠}$ = ٠,٠٠١ ܡܝܬܪܐ

٢٥ ܡܠܡ = ____ = ____ ܡܝܬܪܐ

٦٥٤ ܡܠܡ = ____ = ____ ܡܝܬܪܐ

٧٥٠ ܡܠܡ = ____ = ____ ܡܝܬܪܐ

٢٤٧٥ ܡܠܡ = ____ = ____ ܡܝܬܪܐ

ܠܘܚܐ (٢)

ܡܫܡܠܐ ܐܝܟ ܗܘ ܛܘܦܣܐ

ܟܝܠܘܓܪܡܐ = ١٠٠٠ ܓܪܡܐ

١ ܓܪܡܐ = $\frac{١}{١٠٠٠}$ = ٠,٠٠١ ܟܝܠܘܓܪܡܐ

٢٠ ܓܪܡܐ = ____ = ____ ܟܝܠܘܓܪܡܐ

١٠٠ ܓܪܡܐ = ____ = ____ ܟܝܠܘܓܪܡܐ

٢١٧ ܓܪܡܐ = ____ = ____ ܟܝܠܘܓܪܡܐ

٨٥٠ ܓܪ̈ܡܐ = [ ] = [ ] ܟܝܠܘܓܪܡܐ

٢٢٥٠ ܓܪ̈ܡܐ = [ ] = [ ] ܟܝܠܘܓܪ̈ܡܐ

ܘܠܝܬܪܐ = ١٠٠٠ ܡܝܠܝܠܝܬܪ̈ܐ

ܡܝܠܝܠܝܬܪܐ = [ ] = [ ] ܠܝܬܪܐ

١٢٠ ܡܝܠܝܠܝܬܪ̈ܐ = [ ] = [ ] ܠܝܬܪܐ

١٧٥٠ ܡܝܠܝܠܝܬܪ̈ܐ = [ ] = [ ] ܠܝܬܪ̈ܐ

ܕܘܪ̈ܫܐ (٩ - ٣)

١ - ܟܬܘܒ ܠܡܢܝܢ̈ܐ ܕܐܬܝܢ ܒܨܘܪܬܐ ܦܣܩܢܝܬܐ

$\frac{٧}{١٠٠}$ $\frac{٥}{١٠٠٠}$ $\frac{٢٠}{١٠٠}$ $\frac{٣٠}{١٠٠٠}$ $\frac{١٧٥}{١٠٠٠}$

$\frac{٩٥٩}{١٠٠٠}$ ٧ $\frac{١٠٥}{١٠٠٠}$ ٨ $\frac{٤٣٠}{١٠٠٠}$ ١٤٥ $\frac{٩٥٠}{١٠٠٠}$ ٦٠٠ $\frac{٥٠٠}{١٠٠٠}$

٢ - ܟܬܘܒ ܒܨܘܪܬܐ ܦܣܩܢܝܬܐ

$\frac{٤٥٠٠}{١٠٠٠}$ $\frac{٣٠٠٧}{١٠٠٠}$ $\frac{٥٧٤٢}{١٠٠٠}$ ، $\frac{٩٠١٠}{١٠٠٠}$

٣ - ܟܬܘܒ ܠܡܢܝܢ̈ܐ ܕܐܬܝܢ ܒܨܘܪܬܐ ܕܦܠܓܘܬܐ:

٠,٠٢ ٠,٠٠٥ ٠,٧٥ ٠,٠٧٥

٠,٥٠٨ ٥,٠٤٠ ٧,١٢٩ ٨,٦٥٠

٤ - ܟܬܘܒ ܡܢܝܢܐ ܒܡܢܝܢ̈ܐ :

ܬܡܢܝܐ ܘܫܬܝܢ ܘܬܠܬܐ ܡܢ ܐܠܦܐ ܡܢܬ̈ܐ ܦܣܩܢܝ̈ܬܐ ܕܚܕܐ ٨,٠٦٣

ܫܒܥܐ ܘܬܫܥܝܢ ܘܬܠܬܝܢ ܡܢ ܐܠܦܐ ܡܢܬ̈ܐ ܦܣܩܢܝ̈ܬܐ ܕܚܕܐ [ ]

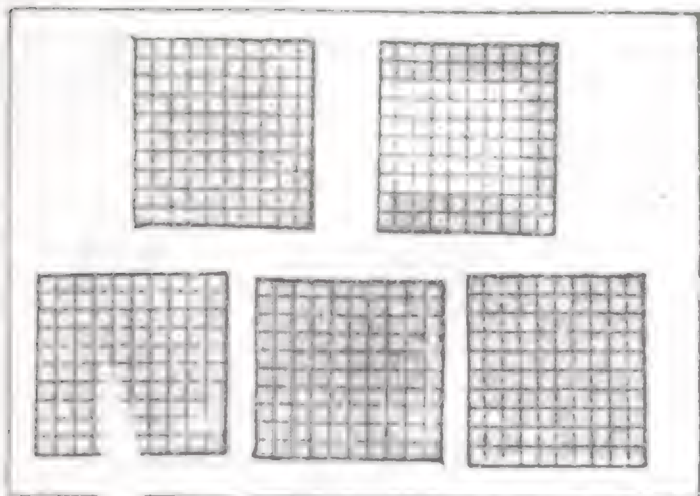
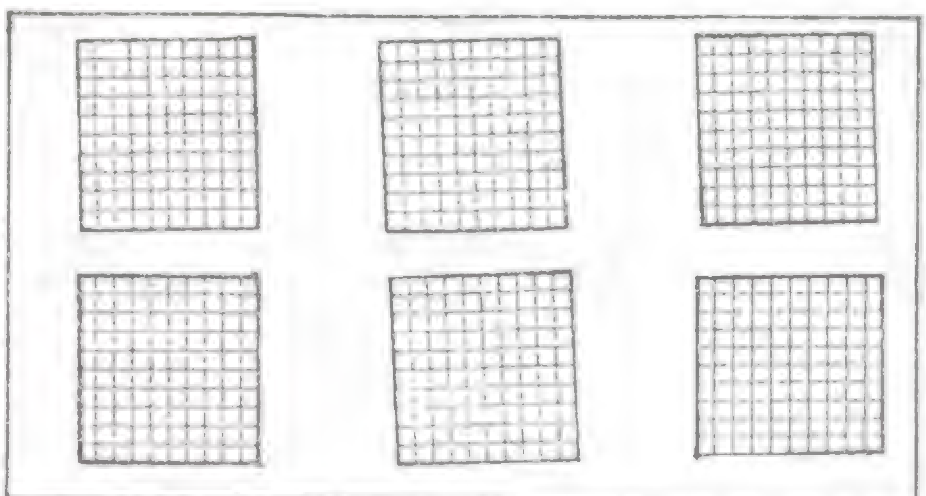
ܫܬܝܢ ܘܬܠܬܐ ܘܚܡܫܡܐ ܡܢ ܐܠܦܐ ܡܢܬ̈ܐ ܦܣܩܢܝ̈ܬܐ ܕܚܕܐ [ ]

٢١ ܕܝܢܪ̈ܐ ܘ ٢٥٠ ܦܠܣ̈ܐ = ٢١,٢٥٠ ܕܝܢܪ̈ܐ

٢٥ ܕܝܢܪ̈ܐ ܘ ٢٥ ܦܠܣ̈ܐ = ☐ ܕܝܢܪ̈ܐ

☐ ܕܝܢܪ̈ܐ ܘ ☐ ܦܠܣ̈ܐ = ١٥٠,٠١٥ ܕܝܢܪ̈ܐ

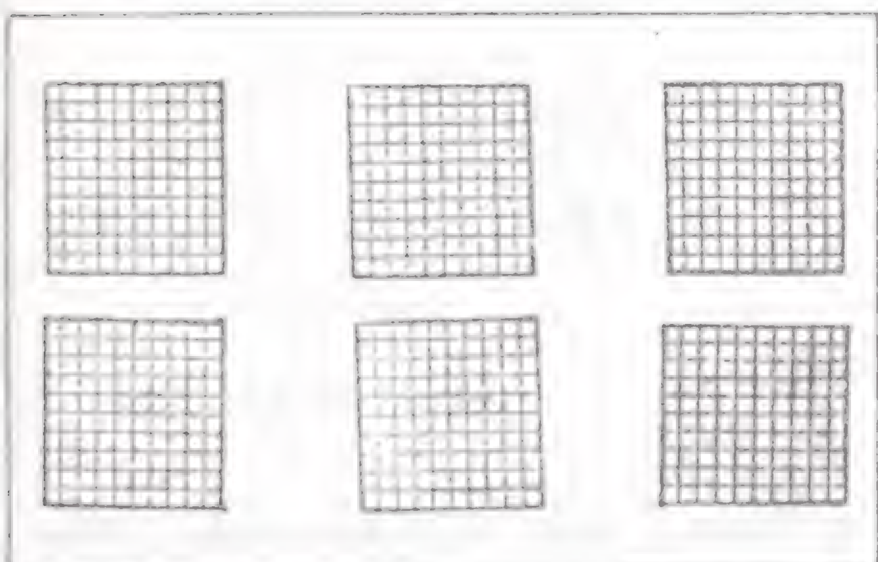
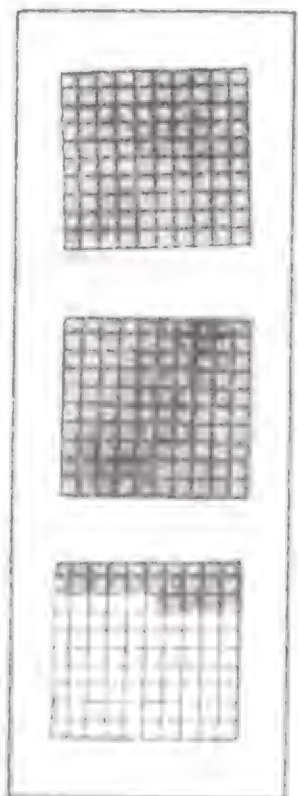
٥ ـ ܕܝܣܠܡ ܗܪܘܢ ܒܟܬܝܒܘܬܐ ٤٧ ܕܝܢܪ̈ܐ ܘ ٣٥٠ ܦܠܣ̈ܐ ܠܣܪܐ ܚܒܠܬܐ ܕܡܘܕܪ̈ܐ. ܟܬܘܒ ܠܟܬܝܒܘܬܐ ܕܕܝܣܠܡ ܗܪܘܢ ܒܝܘܕܥܐ ܢܘܩܕܝܬܐ.

٦ ـ ܡܢܝܢ̈ܐ ܢܘܩܕ̈ܝܐ ܕܡܫܡܫܝܢ ܐܘܪܟܐ ܕܦܠܓ̈ܐ ܒܝܗ :

$1,35 = 1\frac{35}{100}$

ܟܬܘܒ ܠܝܘܕܥܐ ܢܘܩܕܝܬܐ ܠܡܢܝܢ̈ܐ ܢܘܩܕ̈ܝܐ ܕܡܫܡܫܝܢ ܝܘܕܥܐ ܒܟܠ ܚܕ ܕܢܝܐ :

(٩-٤) ܡܘܬܒܐ ܕܡܢܝܢܐ ܒܡܢܝܢܐ ܦܣܝܩܐ:

ܚܘܪ ܒܡܘܬܒܐ ܕܟܠ ܡܢܝܢܐ ܦܣܝܩܐ: ٦٢,٤٧٥



ܨܘܪܬܐ (٩ - ١)

ܡܘܬܒܐ ܕܡܢܝܢܐ ܕܪܩܡܐ ٦ ܝܠܗ ٦٠

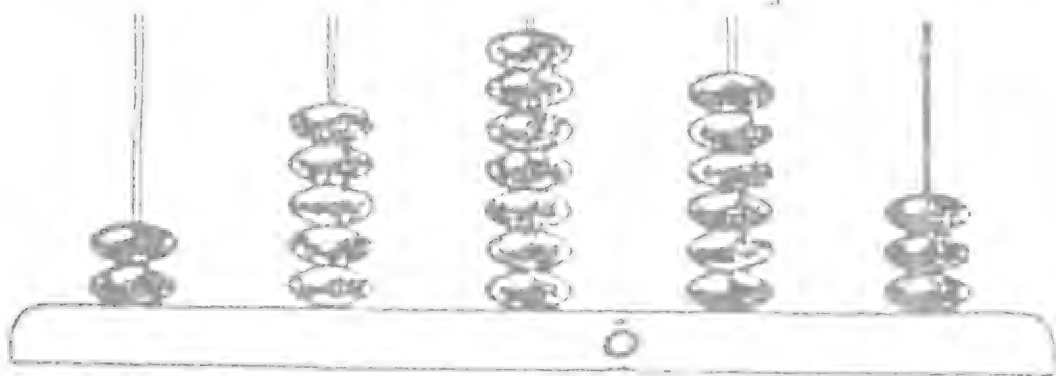
ܡܘܬܒܐ ܕܡܢܝܢܐ ܕܪܩܡܐ ٢ ܝܠܗ [ ]

ܡܘܬܒܐ ܕܡܢܝܢܐ ܕܪܩܡܐ ٤ ܝܠܗ ٠,٤

ܡܘܬܒܐ ܕܡܢܝܢܐ ܕܪܩܡܐ ٧ ܝܠܗ [ ]

ܡܘܬܒܐ ܕܡܢܝܢܐ ܕܪܩܡܐ ٥ ܝܠܗ [ ]

ܘܡܨܝܢܢ ܕܡܚܘܝܚ ܡܢܝܢܐ ܦܣܝܩܐ ܥܠ ܐܒܩܘܣ ܐܝܟ ܒܨܘܪܬܐ (٩ - ٢) ܕܡܚܘܝܐ ܡܢܝܢܐ ܦܣܝܩܐ ٢٥٧,٦٣ .

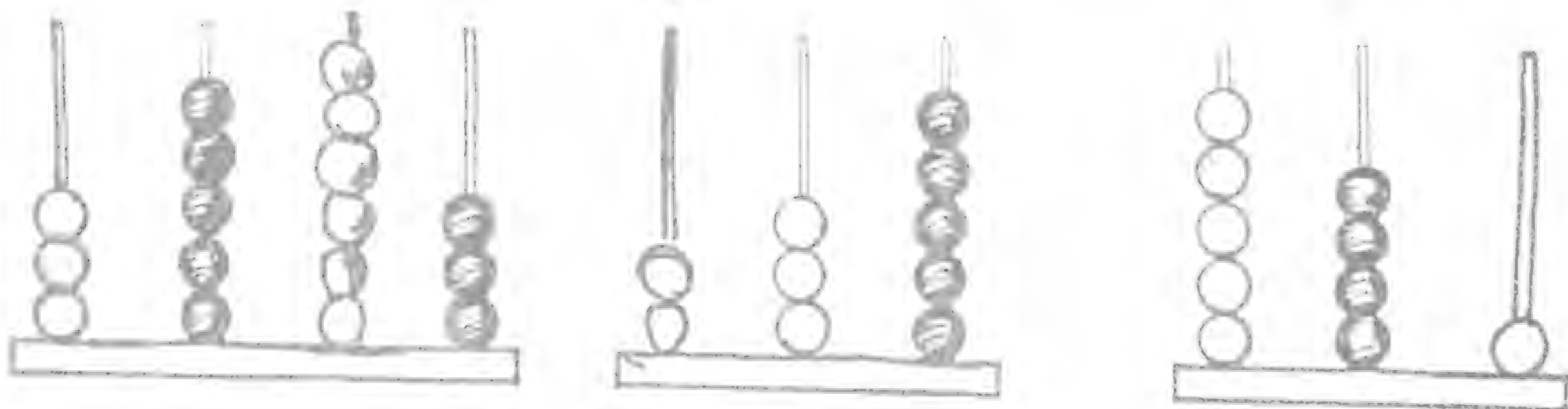


٢٥٧٫٦٣

ܨܘܪܬܐ (٩ - ٢)

ܬܡܪܝܢܐ (٩-٤)

١ - ܟܬܘܒ ܡܢܝܢܐ ܕܡܚܘܝܐ ܥܠ ܐܒܩܘܣ



٢ - ܟܬܘܒ ܡܘܬܒܐ ܕܡܢܝܢܐ ܕܪܩܡܐ ܟܠ ܚܕ ܡܢ ܡܢܝܢܐ ܦܣܝܩܐ ܕܠܬܚܬ:

٤٦,١	١٧٤,١٥	٢٦,٤٥	١٨,٠٤٦
٢٩٧,٢٥٤	٦١,١٠٤	٠,٠٠٤	٤٠٠١,٠٢١

(٩ - ٥) ܬܘܣܦܬܐ ܕܡܢܝܢܐ ܢܩܘܕܝܐ:

ܡܘ ܦܣܝܩܬܐ ܡܢܝܬܐ ܡܫܘܚܠܦܐ:

ܒܨܘܪܬܐ (٩ - ٣)؟

ܕܟܐ ܒܟܠܐ ܚܘܪܐ ܗܘܐ ܕܦܣܩܬܐ ܒܝܗ ܥܠܬܐ

ܦܣܩܬܐ ܡܢ ܥܣܪܐ ܦܣܩܬܐ ܫܘܝܐ.

ܗܕܐ ܘܒܝܬ ܕܡܢܝܢܐ ܕܩܝܡ ܥܠ ܕܗܕܐ

ܦܠܓܐ ܡܫܘܚܠܦܐ ܒܝܗ $\frac{٣}{١٠}$ ܝܢ ٣ ،٠

ܐܢܐ ܚܘܪܐ ܗܘܐ ܡܢܝܢܐ ܕܦܠܓܐ ܡܫܘܚܠܦܐ ܡܢܝܢܐ ٣٠ ܦܣܩܬܐ ܡܢ ܡܐܐ ܦܣܩܬܐ ܫܘܝܐ،

ܗܕܐ ܘܒܝܬ ܕܡܢܝܢܐ ܕܩܝܡ ܠܗܕܐ ܦܠܓܐ ܡܫܘܚܠܦܐ ܒܝܗ

$\frac{٣٠}{١٠٠}$ ܝܢ ٠،٣٠

$$\text{ܗܕܐ ܘܒܝܬ } \frac{٣}{١٠} = \frac{١٠ \times ٣}{١٠ \times ١٠} = \frac{١٠ \times ١٠ \times ٣}{١٠ \times ١٠ \times ١٠} = \ldots$$

ܘܗܕܟܐ ܗܘܐ

٠،٣ = ٠،٣٠ = ٠،٣٠٠ . . . ܘܐܝܟ ܗܟܘܬܐ

$$\text{ܘܡܬܠܐ } ٠،٣٤ = \frac{١٠ \times ٣٤}{١٠ \times ١٠٠} = \frac{٣٤٠}{١٠٠٠} = ٠،٣٤٠$$

ܨܘܪܬܐ (٩ - ٣)

ܕܘܪܫܐ (٩ - ٥)

ܟܬܘܒ ܚܝܘܬܐ ܕܦܣܩܬܐ ܡܢ ܐܠܦܐ ܐܝܟ ܗܿܝ ܗܟܘܬܐ

٠،٧٥	= ٠،٧٥٠
٠،٠٤	= [ ]
٠،٢٣	= [ ]
٠،٦	= ٠،٦٠٠
١،٩	= [ ]

٢٥,٠٥ = ☐

٢٤٠,١ = ☐

(٩ – ٦) ܫܘܚܠܦܐ ܕܦܪ̈ܫܐ ܫܒ̈ܝܪܐ ܠܡܢܝܢܐ ܥܣܪܢܝܐ :

ܠܫܘܚܠܦܐ ܕܦܪ̈ܫܐ ܫܒ̈ܝܪܐ ܠܡܢܝܢܐ ܥܣܪܢܝܐ ܗܘܐ ܕܢܗܘܐ ܡܦܠܓܢܐ ١٠ ܐܘ ١٠٠ ܐܘ ١٠٠٠ ܕܟܠ ܡܚܠܦܢܐ ܕܫܘܘܝܘܬܗ، ܗܐ ܡܬܠܐ

$$\frac{٣}{٥} = \frac{٣ \times ٢}{٥ \times ٢} = \frac{٦}{١٠} = ٠,٦$$

$$\frac{١}{٢} = \frac{١ \times ٥}{٢ \times ٥} = \frac{٥}{١٠} = ٠,٥$$

$$\frac{٤}{٥} = \frac{٤ \times ٢}{٥ \times ٢} = \frac{٨}{١٠} = ٠,٨$$

ܡܬܠܐ (١)

ܚܫܘܒ ܠܡܢܝܢܐ ܥܣܪܢܝܐ ܐܝܟ ܡܬܠܐ :

$$\frac{٧}{٢٠} = \frac{٧ \times ٥}{٢٠ \times ٥} = \frac{٣٥}{١٠٠} = ٠,٣٥$$

$$\frac{٢}{٢٥} = \frac{٢ \times \square}{٢٥ \times \square} = \frac{\square}{\square} = \square$$

$$\frac{٩}{٥٠} = \frac{٩ \times \square}{٥٠ \times \square} = \frac{\square}{\square} = \square$$

$$\frac{٢١}{٧٠} = \frac{٣ \times ٧}{١٠ \times ٧} = \frac{\square}{١٠} = \square$$

$$\frac{١٢}{١٥٠} = \frac{٣ \times ٤}{٣ \times ٥٠} = \frac{٤}{٥٠} = \frac{٤ \times \square}{٥٠ \times ٢} = \frac{\square}{١٠٠} = \square$$

ܘܡܫܲܪܝܵܐ ܗܵܠܹܝܢ ܕܡܫܲܠܡܵܢܘܼܬܵܐ ܕܦܲܟܵܪܵܐ ܡܼܢ ܓܘܼܕܵܐ ܒܪ̈ܵܡܵܐ ܠܓܘܼܕܵܐ ܥܣܪܵܢܵܝܵܐ ܒܦܠܓܘܼܬܵܐ

ܢܚܙܹܝܢܝܼ ܐܲܝܟ ܡܲܚܘܝܵܢܝܼ ܐܲܝܟ ܠܠܒܝܼܬܵܐ ܗܵܠܹܝܢ ܡܼܢ ܦܘܼܫܵܩܹ̈ܐ ܕܐ̄ܬܹܝܢ :

ܦܘܼܫܵܩܵܐ (١)

ܦܲܟܸܪ $\frac{٣}{٥}$ ܒܓܘܼܕܵܐ ܥܣܪܵܢܵܝܵܐ

ܫܪܵܪܵܐ : ٣ ÷ ٥ = ٠,٦

ܠܒܝܼܬܵܐ : ܠܹܐ ܡܨܹܐ ܕܦܵܠܹܓ ٣ ܥܲܠ ٥ ،

ܒܗܵܕ ܐܲܝܟܵܐ ܒܡܫܲܚܠܦܝܼ ٣ ܠ ٣٠ ܡ̈ܢܘܵܬܵܐ ܡܼܢ ܥܣܪܵܐ

٣٠ ܡ̈ܢܘܵܬܵܐ ܡܼܢ ܥܣܪܵܐ ÷ ٥

= ٦ ܡ̈ܢܘܵܬܵܐ ܡܼܢ ܥܣܪܵܐ

٠,٦
٥ | ٣,٠
٠
٣٠
٣٠
٠٠

ܦܘܼܫܵܩܵܐ (٢)

ܦܲܟܸܪ $\frac{٣}{٨}$ ܒܓܘܼܕܵܐ ܥܣܪܵܢܵܝܵܐ

ܫܪܵܪܵܐ : $\frac{٣}{٨}$ = ٠,٣٧٥

ܘܗܵܕܵܟ ܐܝܼܠܹܗ ܒܢܝܼܬܵܐ ܕܦܠܓܘܼܬܵܐ

ܕܡܫܲܚܠܦܝܼ ٣ ܒܐܠܦܵܐ ܡ̈ܢܘܵܬܵܐ ܡܼܢ ܥܣܪܵܐ ܘܗܵܐ ܕܦܝܼܫ

ܡܼܢ ܡ̈ܢܘܵܬܵܐ (ܕܦܝܼܫ ٦) ܒܡܫܲܚܠܦܝܼ ܠ ٦٠

ܡ̈ܢܘܵܬܵܐ ܡܼܢ ܡܐܵܐ ، ܘܦܵܠܹܓ ܦܠܓܘܼܬܵܐ ܥܲܠ ٨

ܒܡܫܲܚܠܦܝܼ ܗܵܐ ܕܦܝܼܫܹܗ ܡܼܢ ܡ̈ܢܘܵܬܵܐ (٤) ܠ ٤٠ ܡ̈ܢܘܵܬܵܐ

ܡܼܢ ܐܲܠܦܵܐ ܗܵܠ ܕܡܫܲܠܡܘܼܬܵܐ ܡܲܫܪܝܼܬܵܐ ܕܦܠܓܘܼܬܵܐ.

٠,٣٧٥
| ٣,٠
٢٤
٦٠
٥٦
٤٠
٤٠
٠٠

ܦܘܼܫܵܩܵܐ (ܓ)

ܦܲܟܸܪ ܠܓܘܼܕܵܐ $\frac{٥٧}{٣٠}$ ܒܓܘܼܕܵܐ ܥܣܪܵܢܵܝܵܐ

ܫܪܵܪܵܐ : $\frac{٥٧}{٣٠} = \frac{١٩ \times ٣}{١٠ \times ٣} = \frac{١٩}{١٠} = ١,٩$

ܕܘܪܫܐ (٩-٦)

١ - ܟܬܘܒ ܠܡܢܝܢܐ ܒܨܘܪܬܐ ܥܣܪܢܝܬܐ.

(ܐ) $\frac{٣}{٤}$ (ܒ) $\frac{٧}{٨}$ (ܓ) $\frac{١١}{٢٥}$ (ܕ) $\frac{٦}{٢٥}$

(ܗ) $\frac{١}{٢٥٠}$ (ܘ) $\frac{١٧}{٥٠٠}$ (ܙ) $\frac{٢٧}{٥٤}$ (ܚ) $\frac{١٨}{٩٠}$

(ܛ) $\frac{٢٤٠}{٨٠}$ (ܝ) $\frac{٣٧٥}{١٢٥}$ (ܟ) $\frac{٣٠٠}{١٢٠}$ (ܠ) $\frac{١}{٢٠}$

٢ - ܟܬܘܒ ܠܨܘܪܬܐ ܦܫܝܛܬܐ (ܒܡܫܘܚܬܐ ܨܘܪܬܐ)

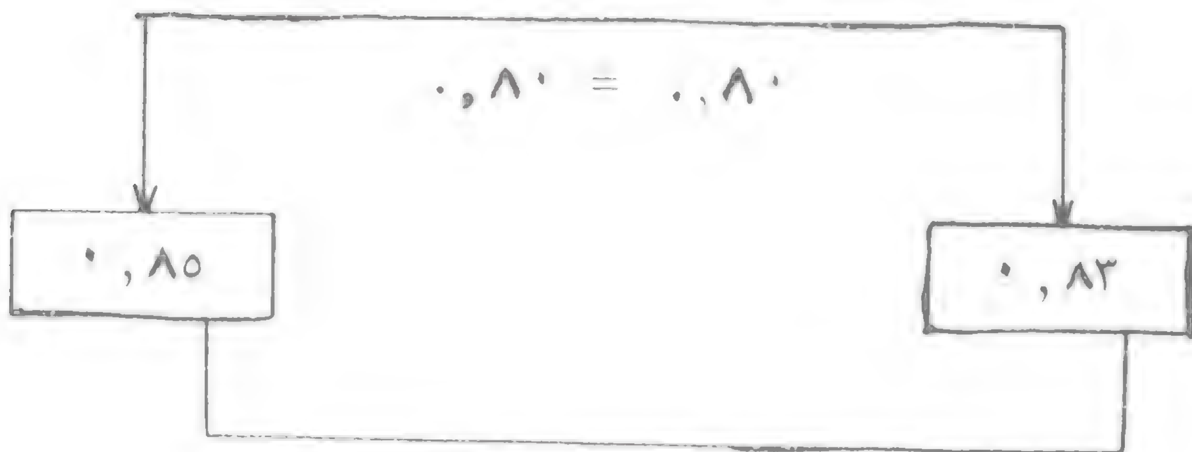
(ܐ) ٠,٢٥ (ܒ) ٠,٧٥ (ܓ) ١,٢ (ܕ) ١٢,٥٠

(ܗ) ٧,٠١ (ܘ) ٤,١٢٥ (ܙ) ٠,٨٧٥ (ܚ) ٦,٣٧٥

(٩-٧) ܦܘܚܡܐ ܕܡܢܝܢܐ ܥܣܪܢܝܐ :

ܡܪܐܠܝܗ ܥܠܝܡܬܐ، ܕܡܝܩܐ ܡܢ ܬܡܝܗ ܠܡܪܕܝܬܗ ܒܠܗ ٠,٨٣ ܟܝܠܘܡܝܬܪ̈ܐ، ܘܡܝܩܐ ܡܢ ܡܪܕܝܬܗ ܠܬܡܗ ܐܪܟܐ ܒܠܗ ٠,٨٥ ܟܝܠܘܡܝܬܪ̈ܐ. ܐܝܢܐ ܡܝܩܐ ܝܬܝܪ ܐܪܝܟܐ ؟

ܡܩܪ̈ܒܬܐ ܡܢ ܥܣܪܐ ܚܘܠܩ̈ܐ



ܡܩܪ̈ܒܬܐ ܡܢ ܡܐܐ ܠܐ ܚܘܠܩ̈ܐ

٠,٠٥ < ٠,٠٣

ܡܫܘܚܬܐ ܦܣܝܩܝܬܐ ܗܝ ܕ ٠,٨٣ ܙܥܘܪܐ ܡܢ ٠,٨٥ : ٠,٨٥ ܪܒܐ ܡܢ ٠,٨٣

٠,٨٣ < ٠,٨٥ ، ٠,٨٥ > ٠,٨٣

ܡܬܠܐ (١)

ܦܣܘܩ ܒܝܢ ٠,٤٢٤ ، ٠,٤٢٦

ܐܝܕܐ ܡܩܪ̈ܒܬܐ ܡܢ ܥܣܪܐ ܚܘܠܩ̈ܐ ܗܘܬ ؟

ܐܝܢܐ ܡܢܝܢܘܬܐ ܡܢ ܗܠܝܢ ܙܥܘܪܬܐ ܝܬܝܪ ؟

ܐܝܢܐ ܡܢܝܢܘܬܐ ܡܢ ܬܪܬܝܗܝܢ ܪܒܬܐ ܝܬܝܪ ؟

ܐܝܟܘ ܡܢܝܢܐ ٠,٤٢٦ : ٠,٤٢٤ ܠܚܕ ؟

ܡܬܠܐ (٢)

ܦܫܘܩ ٠,٨ ܘ ٠,٧٩

ܡܛܠ ܕ ٠,٨ = ٠,٨٠

ܡܬܠܐ (٣)

ܦܫܘܩ ٠,٤٢ ܘ ٠,٤٣١

ܡܛܠ ܕ ٠,٤٢ = ٠,٤٢٠

ܕܘܪܫܐ (٩ - ٧)

ܡܠܝ ܦܢܝܬܐ ܕܐܫܬܘܝܘܬܐ ܠܣܝܡܐ > ܐܘ < ܐܘ = ܒܟܠ ܚܕ ܕܗܠܝܢ :

(ܐ)	٠,٥	□ ٠,٩	(ܒ)	,٢٣	□ ٠,٢٧
(ܓ)	٠,٣٦٨	□ ٠,٣٦٤	(ܕ)	٠,٢٩	□ ٠,٣
(ܗ)	٠,٤٧٨	□ ٠,٦٧	(ܘ)	٠,٥٧٤	□ ٠,٠٥٧
(ܙ)	٠,٠١٦	□ ٠,٠٠١٧	(ܚ)	٠,٨٢٠	□ ٠,٨٢
(ܛ)	,٠٧	□ ٠,٠١٧	(ܝ)	٠,٤٩٩	□ ٠,٥

٢ - ܣܕܘܪ ܠܡܢܝܢܐ ܕܐܬܝܢ ܡܙܥܘܪܐ ܠܪ̈ܒܐ :

٠,٧ ٠,٦٩ ٠,٦٠٩ ,٠٧ ٠,٣٥

٣ - ܣܕܘܪ ܠܡܢܝܢܐ ܕܐܬܝܢ ܡܪ̈ܒܐ ܠܙܥܘܪܐ :

٠,٧٨ ٠,٨٠٧ ٠,٨٧ ٠,٧٠٨ ٠,٦٥

٤ - ܐܢ ܗܘܦܐ ٢٥,٧٥٠ ܕܡܩ̈ܕܐ ܘܐܢ ܐܚܪܝܐ ܡܦܩܝܢ ٢٥,٨٠ ܕܡܩ̈ܕܐ. ܡܢ ܡܢܝܗܘܢ ܐܝܬܠܗ ܘܦܘܪܐ ܝܬܝܪ ܡܢ ܐܚܪܢܐ ؟ ܐܝܟܢܐ.

٥ - ܗܕܐ ܚܕܬܐ ܥܡܠܐ ܕܡܢܝ̈ܢܐ ٠,٧٨ ܚܒܠܬܐ ܘܥܡܠܐ ܕܗܕ̈ܝܢܐ ٠,٨ ܚܒܠܬܐ ܐܝܢܘ ܚܕܬܐ ܝܬܝܪ ܐܝܠܘܟ ܡܢܝ̈ܢܐ ܝܢ ܗܕ̈ܝܢܐ ؟ ܐܠܡܐ؟

(٩-٨) ܡܩܪܒܘܬܐ ܕܡܢܝܢܐ ܘܡܢܘ̈ܬܐ ܥܣܪ̈ܝܐ :

ܨܘܪܬܐ (٩ - ٤)

ܚܙܝ ܒܨܘܪܐ ܗܕܐ ܒܨܘܪܬܐ (٩ ـ ٤) ܗܘ ܕ ٣,٢ ܝܠܗ ܩܪܝܒܐ ܒܝܬܗ ܠ ٣ ܡܢ ٤ ܘܒܗܝ
ܕܐܗܐ ܒܡܩܪܒ ٣,٢ = ٣ ܡܩܪܒܬܐ ܐܝܟ̈ܐ ܠܡܢܘ̈ܬܐ ܡܢ̈ܝܢܐ ܫ̈ܠܡܐ.
ܘܚܕܐ ܕ ٣,٩ ܗܘܐ ܩܪܝܒܐ ܠ ٤ ܡܢ ܠ ٣
ܗܟܢܐ ܐܦ ٣,٩ = ٤ ܡܩܪܒܬܐ ܐܝܟ̈ܐ ܠܡܢܘ̈ܬܐ ܡܢ̈ܝܢܐ ܫ̈ܠܡܐ.

ܐܢܐ ٣,٥ ܐܝܬܠ ܒܦܠܓܐ ܕܡܢܝܢܐ ܒܝܢ ٣ ،٤. ܐܢܐ ܒܡܩܪܒ ܗܘ ܕ ٣,٥ = ٤ ܡܩܪܒܬܐ ܐܝܟ̈ܐ ܠܡܢܘ̈ܬܐ ܡܢ̈ܝܢܐ ܫ̈ܠܡܐ.

ܡܬܠܐ (١)

ܩܪܒ ܟܠ ܚܕ ܕܐܬܝܢ ܠܡܢܘ̈ܬܐ ܡܢ̈ܝܢܐ ܫ̈ܠܡܐ :

٤,١ ، ٣٥,٧ ، ١٢٠,٨ ، ٢٥١,٤

٣٥,٢ ، ١٠٠,٥ ، ٣٥١٢,٣ ، ٠,٦

١٠٤,٦ ، ٤١,١ ، ٢١٠,٦ ، ٩٩,٨

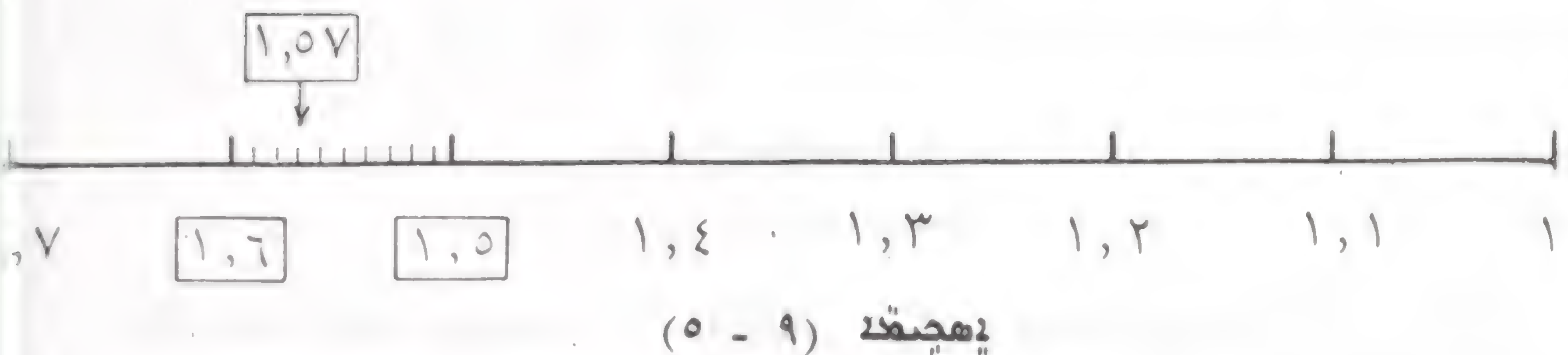
ܦܠܛܐ :

ܠܡܩܪܒܘܬܐ ܕܡܢܝܢܐ ܥܣܪܢܝܐ ܠܣܘܪܓܕܐ ܡܢܝܢܐ ܫܠܡܐ، ܚܙܝ ܒܡܢܝܢܐ ܕܒܣܘܟܐ ܕܡܢܘܬܐ ܕܥܣܪܐ، ܘܐܢ ܗܘܐ (ܐܢ ܟܠ ܗܘ ܕܒܣܘܟ ܠܡܢܝܢܗ) ܐܝܢ ܗܘܝܐ > ٥ . ܗܘ ܕܩܝܡ ܠܡܩܪܒܘܬܐ ܦܠܛܐ. ܒܪܡ ܐܢ ܗܘܝܐ ≥ ٥ ܘܐܢ ܗܘܐ ܐܘ ܗܘ (ܐܢ ܟܠ ܕܒܣܘܟ ܠܡܢܝܢܗ) ܘܡܘܣܦ ܚܕ ܠܡܢܝܢܐ ܕܡܢܘܬܐ.

ܚܙܝ ܦܫܝܫ ܡܩܪܒܐ ܗܠܝܢ ܡܢܝܢܐ ܕܬܚܝܬ :

١,٥٧ ١,٦ ١,٥

ܡܢܝܢܐ ܙܥܘܪܐ ܐܝܬܘ ١,٥ ܘܡܢܝܢܐ ܪܒܐ ܐܝܬܘ ١,٦
ܒܪܡ ܡܢܝܢܐ ١,٥٧ ܒܝܬ ܒܝܢ ١,٥ : ١,٦



ܨܘܪܬܐ (٩ - ٥)

ܡܚܙܝܢ ܐܝܟ ܐܝܟ ܨܘܪܬܐ (٩ - ٥) ܕܡܢܝܢܐ ܦܫܝܛܐ ١,٥٧ ܒܝܬ ܒܝܢ ١,٥ : ١,٦ ܒܪܡ ܩܪܝܒ ܝܬܝܪ ܐܝܬܘ ܠ ١,٦ ܡܢ ١,٥

ܘܟܠ ܕܗܘܐ ܒܡܩܪܒ ܕ ١,٥٧ = ١,٦ ܡܘܩܪܒܐ ܠܣܘܪܓܕܝܗ ܡܢܬܐ ܡܢ ܥܣܪܐ.

ܘܐܦ ܗܟܘܬ : ١,٥٨ = ١,٦ ܡܘܩܪܒܐ ܠܣܘܪܓܕܝܗ ܡܢܬܐ ܡܢ ܥܣܪܐ.

، ١,٥٦ = ١,٦ ܡܘܩܪܒܐ ܠܣܘܪܓܕܝܗ ܡܢܬܐ ܡܢ ܥܣܪܐ.

١,٥٥ = ١,٦ ܡܘܩܪܒܐ ܠܣܘܪܓܕܝܗ ܡܢܬܐ ܡܢ ܥܣܪܐ.

ܒܪܡ : ١,٥٤ = ١,٥ ܡܘܩܪܒܐ ܠܣܘܪܓܕܝܗ ܡܢܬܐ ܡܢ ܥܣܪܐ.

١,٥٣ = ١,٥ ܡܘܩܪܒܐ ܠܣܘܪܓܕܝܗ ܡܢܬܐ ܡܢ ܥܣܪܐ.

١,٥١ = ١,٥ ܡܘܩܪܒܐ ܠܣܘܪܓܕܝܗ ܡܢܬܐ ܡܢ ܥܣܪܐ.

ܩܢܘܢܐ :

> ܠܡܩܪܒܘܬܐ ܕܡܢܝܢܐ ܢܩܕܢܝܐ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܥܣܪܐ ، ܚܙܝ ܒܡܢܝܢܐ ܕܡܘܬܒܐ ܕܡܢܬܐ ܕܡܐܐ ، ܘܐܢ ܗܘܐ (ܐܝܟ ܟܠ ܚܕ ܕܡܢܝܢܐ ܠܡܛܠܥܐ) ܐܝܟ ܗܘܐ < ٥ . ܘܐܢ ܐܝܬ ܡܢܝܢܐ ܗܘܐ ≥ ٥ ܫܒܘܩܝܗ (ܐܝܟ ܟܠ ܚܕ ܕܡܢܝܢܐ ܡܢ ܠܥܠܝܗ) ܘܐܢ ܡܘܣܦ ܚܕ ܠܡܢܝܢܐ ܕܡܘܬܒܐ ܕܡܢܬܐ ܕܥܣܪܐ.

ܡܘܬܪܐ (٢)

٨,٤٥ = ٨,٥ ܡܩܘܪܒܐ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܥܣܪܐ

٦,٣٢٩ = ٦,٣ ܡܩܘܪܒܐ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܥܣܪܐ

٧,٨٩١ = ܡܩܘܪܒܐ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܥܣܪܐ

٤٥,٤٤٥ = ܡܩܘܪܒܐ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܥܣܪܐ

٠,٠٧١ = ܡܩܘܪܒܐ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܥܣܪܐ

٠,٠٤٩ = ܡܩܘܪܒܐ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܥܣܪܐ

ܡܨܝܢܢ ܐܦ ܠܡܦܠܚܘ ܕܘܟܬܐ ܗܕܐ ܒܡܩܪܒܘܬܐ ܕܡܢܝܢܐ ܢܩܕܢܝܐ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܡܐܐ ܐܘ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܐܠܦܐ ، ܐܝܟ ܕܡܚܘܝܢ ܐܦ ܡܢ ܦܘܠܚܢܐ ܕܐܬܝ :

ܦܘܠܚܢܐ (١)

ܩܪܒ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܡܐܐ :

(ܐ) ٧,٠٥٤ (ܒ) ١٢,١٤٩

ܫܪܝܐ :

(ܐ) ٤ | ٧,٠٥ = ٧,٠٥ ܡܩܘܪܒܐ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܡܐܐ

٤ < ٥

(ܒ) ٩ | ١٢,١٤ = ١٢,١٥ ܡܩܘܪܒܐ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܡܐܐ

٩ > ٥

ܦܘܠܚܢܐ (٢)

ܩܪܒ ܠܡܘܬܒܐ ܡܢܬܐ ܡܢ ܐܠܦܐ

(ܐ) ٦,٤٧٥٢ (ܒ) ٢٥٠,٠١٩٨

ܥܒܕܐ :

(ܐ)	٦,٤٧٥ ٢ ـ ٦,٤٧٥ =	ܡܩܘܪܒܬܐ ܠܡܘܪܒܝܐ ܡܢܝܢܐ ܡܢ ܪܒܥ
٢	٥ >	
(ܒ)	٢٥٠,٠١٩٨ = ٢٥٠,٠٢٠	ܡܩܘܪܒܬܐ ܠܡܘܪܒܝܐ ܡܢܝܢܐ ܡܢ
٨	٥ <	

ܚܘܪܐ : ܕܒܝܬ ܗܝ ܕܡܢܝܢܐ ܕܡܢܐ ٢ ܒܡܢܝܢܐ ܝܚܝܕܝܐ ٦,٤٧٥٢
ܘܗܝ ܕܡܢܝܢܐ ܕܡܢܐ ٨ ܒܡܢܝܢܐ ܝܚܝܕܝܐ ٢٥,٠١٩٨

ܕܘܪܫܐ (٨-٩)

١ ـ ܩܪܒ ܠܡܘܪܒܝܐ ܡܢܝܢܐ ܡܢ ܥܣܪܐ

٦,٢٩ ١٣,١٥ ٢٤,٦١ ٢١٢,٤٩ ٦٥١,٣١

٢ ـ ܩܪܒ ܠܡܘܪܒܝܐ ܡܢܝܢܐ ܡܢ ܡܐܐ

١٧,٢٥٤ ٢٩١,٦١٧ ٢٩,٩٦٥ ٩٦,١٩٧

١٠٢,٤١٩ ٧٢,٥٥٥

٣ ـ ܩܪܒ ܠܡܘܪܒܝܐ ܡܢܝܢܐ ܡܢ ܐܠܦܐ

١,٧١٢٥ ٤١٢,٦١٥١ ٢٢٥,١٦٥٤ ٧٠٠,١٢٨٧

٢١٦,١٥٦٩ ٥٤,٦١٧٣ ١٧,٠٤٩٦

٤ ـ ܩܪܒ ܠܡܘܪܒܝܐ ܡܢܝܢܐ ܫܠܡܐ

١٨,٣ ٢٥,١٤ ١١٣,٦٥ ٢٥١,٤٩٩

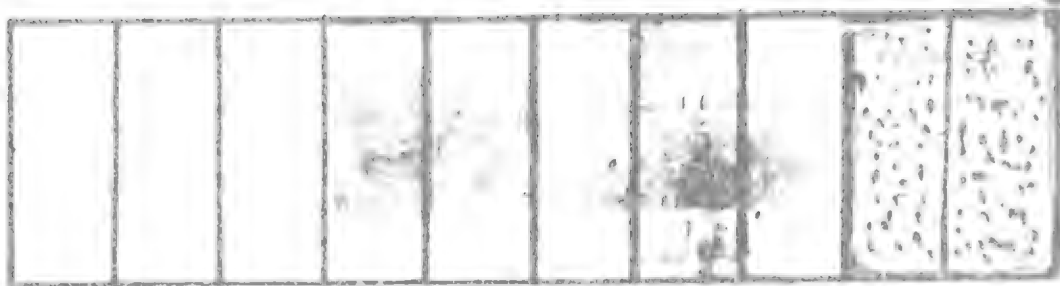
٣٠,٠٦١ ١٢,٠٥٤ ٧٥,٠٤٨ ١٧,٤٩٣

٥ ـ ܐܢ ܒܝܬܠܘܟ ܕܘܟܝܐ ܦܘܠܚܢܐ ܠܡܢܝܢܐ ٩,٥٦٠ ܕܝܢܪܐ ܘܦܠܓܐ ܕܣܘܡܟܐ ܠܡܢܝܢܐ ٥٠٠,٢٠ ܕܝܢܪܐ. ܟܡܐ ܕܝܢܪܐ ܦܫܝܢ؟ ܘܐܢ ܐܝܬܠܘܟ ٣٢ ܕܝܢܪܐ ܗܘܐ ܟܡܐ ܠܘܩܒܠ ܕܦܘܠܚܢܐ ܘܦܠܓܐ ؟ ܘܠܡܢܐ ؟

(٩ - ٩) ܡܘܬܬܐ ܕܡܢܝܢܐ ܦܘܪܫܐ ܥܣܪܢܝܐ :

$\frac{٢}{١٠} + \frac{٥}{١٠} = \frac{٧}{١٠}$

٠,٢ + ٠,٥ = ٠,٧



$\frac{٢}{١٠} + \frac{٥}{١٠} = \frac{٧}{١٠}$

٠,٢ + ٠,٥ = ٠,٧

ܡܬܠܐ (١)

ܚܫܘܒ ܠܡܘܬܬܐ

٠,١٧ + ٠,٣٩

ܫܪܝܐ :

$٠,١٧ = \frac{١٧}{١٠٠}$ ، $٠,٣٩ = \frac{٣٩}{١٠٠}$

٠,١٧ + ٠,٣٩

$= \frac{١٧}{١٠٠} + \frac{٣٩}{١٠٠}$

$= \frac{٥٦}{١٠٠} = ٠,٥٦$

٠,١٧ + ٠,٣٩ = ٠,٥٦

①
٠,١٧
+ ٠,٣٩
٠,٥٦

ܡܬܠܐ (٢)

ܚܫܘܒ ٠,٢٧ + ٠,٦

ܫܪܝܐ :

٠,٢٧ + ٠,٦

$= \frac{٢٧}{١٠٠} + \frac{٦}{١٠}$

$= \frac{٢٧}{١٠٠} + \frac{٦٠}{١٠٠}$

$= \frac{٨٧}{١٠٠} = ٠,٨٧$

٠,٢٧ + ٠,٦ = ٠,٨٧

٠,٢٧
+ ٠,٦٠
٠,٨٧

ܡܬܠܐ (٣)

ܚܫܘܒ ٤,٥٩ + ٨,٦٣

ܦܬܪܐ :

١٣,٢٢ = ٨,٦٣ + ٤,٥٩

① ①
٤,٥٩
٨,٦٣ +
١٣,٢٢

ܦܝܫܠܗ ܚܘܝܕܐ ܡܢ ܛܘܦܣܐ ܚܝܒܐ ܗܢܐ ܕܪ̈ܫܐ :

> ܠܚܘܒ̈ܪܐ ܕܡܢܝܢ̈ܐ ܕܬܡ̈ܢܐ ܡܣܝܡܝܢ ܐܘܪܚܐ ܕܚܘܒ̈ܪܐ ܕܝܕܝܥܬܐ ܒܡܢܝܢ̈ܐ ܫܠܡ̈ܐ ܚܘܫܒܐ ܕܚܘܒ̈ܪܐ
> ܕܕܘܟ̈ܝܐ ܕܡܢ̈ܝܐ ܘܡܬܒܥܕܢܐ ܕܦܫܘܛܘܬܐ ܒܡܫܡܫܢܘܬܐ. ܘܦܫܛܐ ܚܘܝܕܐ ܕܦܬܪܘܢܐ ܒܡܠܐܘܬܐ
> ܕܒܟܠܐ ܐܝܟ ܕܦܪܝܫ ܒܚܘܒ̈ܪܐ ܕܡ̈ܢܘܬܐ ܕܐܠܦܐ ܡܢ ܡ̈ܢܘܬܐ ܕܡܐܐ ܡܢ ܡ̈ܢܘܬܐ ܕܥܣܪܐ ܘܡܢ
> ܚܕ̈ܢܘܬܐ .. ܐܟܚܕܐ

ܛܘܦܣܐ (٤)

ܐܟܢܫ ܗܘܢ̈ܝܐ ܗܢܐ ܕܪ̈ܫܐ :

(ܐ) ٣,١٢ + ٠,٤٧

(ܒ) ١٥,٢ + ٢٣,٤٦ + ١٤٧,١٨٩

٠,٤٧
٣,١٢ +
٣,٥٩

ܦܬܪܐ :

(ܐ) ٣,٥٩ = ٣,١٢ + ٠,٤٧

(ܒ) ١٥,٢ + ٢٣,٤٦ + ١٤٧,١٨٩

= ١٥,٢٠٠ + ٢٣,٤٦٠ + ١٤٧,١٨٩

= ١٨٥,٨٤٩

① ①
١٥,٢٠٠
٢٣,٤٦٠
١٤٧,١٨٩ +
١٨٥,٨٤٩

ܕܘܪܫܐ (٩-٩)

(ܐ) ٩,٨٢ + ٤,١٣ =

(ܒ) ١٢,٥١ + ٣,٠٥ =

(ܓ) ١٦,٣٧ + ٠,١٥ =

(ܕ) ٦,٥٣ + ٥٣,١ =

(ܗ) ٦,٢١ + ٣٥ =

(ܘ) ١٨ + ١٤,٦٩ =

(ܙ) ٥١٢,٢ + ١٧,٧٤ =

(ܚ) ١٧٤,٩ + ٧,٥٢١ =

(ܛ) ١٨,١١٩ + ٠,٢٥ + ٧,٤ =

(ܝ) ١٩,٠٥٤ + ١,٠٠٢ + ٧,٢٤ =

٢ - ܒܙܒܢܠܗ ܚܡܫܘܬܐ ܦܪ̈ܘܩܐ ܠܗܠܟܐ ܗܒܝܬܐ، ܡܙܒܢܠܗ ܠܦܪ̈ܘܬܐ ٢٥ ܕܝܢ̈ܪܐ ܘ ٧٥٠ ܦܠܣ̈ܐ ܘܡܙܒܢܠܗ ܠܗܦܪ̈ܐ ٩ ܕܝܢ̈ܪܐ ܘ ٢٥٠ ܦܠܣ̈ܐ ܘܡܙܒܢܠܗ ܠܗܠܒܫ̈ܐ ܐܢܝ ܚܡܫܘܬܐ ܕܦܫ ܡܙܒܢܠܗ ܠܦܪ̈ܘܬܐ. ܟܡܐ ܕܝܢ̈ܪܐ ܕܝܗܒܠܗ ܐܗܘ ܦܪ̈ܘܩܐ ؟

٣ - ܘܝܢ ܠܗ ܥܠܝܡܐ، ܟܬܒܐ ܒܚܡܫܘܬܐ ٢,٦٥٠ ܕܝܢ̈ܪܐ ܘܡܘܟܠܐ ܠܐܚܘܢܗ ܒܚܡܫܘܬܐ ܕ ٧,١٥٠ ܕܝܢ̈ܪܐ. ܟܡܐ ܕܝܢ̈ܪܐ ܡܙܒܢܠܗ ܥܠܝܡܐ، ܒܟܡܐ ܕܟܬܒܐ ܘܡܘܟܠܐ ܡܫܘܚܬܐ؟

٤ - ܡܘܬܠܝܬܠܝ ܚܕ ܐܢܫܐ ܠܗܐ ܡܕܝܢܬܐ ܕܐܬܪܢܝܬܐ ܕܡܢ̈ܐ ܒܘܩܪܐ ܕܐܢܫ̈ܐ ܡܕܡܢܐ ٥ ܣܥ̈ܬܐ ܘ ٥٥ ܩܛ، ܘܒܘܩܪܐ ܕܐܢܫ̈ܐ ܗܕ̈ܢܐ ٤ ܣܥ̈ܬܐ ܘ ٥ ܩܛ. ܟܡܐ ܣܥ̈ܬܐ ܒܘܩܪܐ ܕܐܬܪܢܝܬܐ؟

٥ - ܘܝܢ ܠܗ ܡܦܩܝܢ ܚܕ ܡܠܟܐ ܡܢ ܝܘܡܐ ܒܘܩܪܐ ܕܡܕܡܢܐ ٤,٦٥ ܣܥ̈ܬܐ ܘܗܕ̈ܢܐ ܐܢܝ ܡܢ ܡܕܡܢܐ ܒܚܡܫܘܬܐ ٢,١٥ ܣܥ̈ܬܐ. ܟܡܐ ܒܘܩܪܐ ܕܡܠܟܐ ܗܕ̈ܢܐ؟ ܘܟܡܐ ܒܘܩܪܐ ܕܗܕ̈ܢܐ ܡܠܟܐ ܡܫܘܚܬܐ؟

٦ - ܟܡ̈ܐ ܟܠܝܐ ١٥,٣٥٠ ܟܝܠܘܓܪ̈ܡܐ ܡܢ ܚܠܒܐ، ܘܟܠܝܐ ܟܡ̈ܐ ܐܚܪ̈ܢܐ ٢٥,٧٥٠ ܟܝܠܘܓܪ̈ܡܐ ܡܢ ܚܠܒܐ. ܐܢܐ ܟܠܗ ܐܢܝ ܚܕ ܟܡܐ ܠܚܡܫܘܬܐ ܡܢ ܚܠܒܐ ܗܘܠܐ ٥٠ ܟܝܠܘܓܪ̈ܡܐ ؟ ܘܠܡܢܐ؟

ܡܬܒ̈ܥܝܢܘܬܐ : ܟܠ ܟܬܒܐ ܡܫܚܠܦܘܬܐ ܕܡܘܢܝܐ ܘܥܒܕ ܠܚܘܫܒܐ ܡܘܕܥ̈ܢܐ.

(٩ - ١٠) ܒܨܘܪ̈ܐ ܕܡܢܝܢ̈ܐ ܥܣܪ̈ܢܝܐ :

ܒܡܦܠܚܬܐ ܠܗܕ̈ܡܐ ܕܒܨܘܪ̈ܐ ܒܕܝܠܐ ܠܒܨܘܪ̈ܐ ܕܡܢܝܢ̈ܐ ܥܣܪ̈ܢܝܐ، ܘܗܝܢ ܠܡܦܠܚܬܐ ܕܡܢ̈ܝܢܐ ܐܝܟ ܡܬܠܐ : ܘܐܝܟ ܐܟܠܝܢ ܠܗܐ ܡܬܠܐ:

ܡܬܠܐ :(١)

ܠܡܒܨܪܬܐ ܕܡܢ̈ܐ ٢٤,٦ - ١٣,٢

٢٤,٦ - ١٣,٢ = ١١,٤

٢٤,٦
١٣,٢ -
١١,٤

ܐܢ ܡܬܚܙܐ ܒܨܘܪܐ ܒܨܘܪ̈ܐ ܕܡܢܝܢ̈ܐ ܥܣܪ̈ܢܝܐ ܡܢ ܡܢܝܢ̈ܐ ܡܢ ܥܣܪ̈ܢܝܐ.

ܡܬܠܐ (٢)

ܠܒܨܘܪܐ ٣٤,٦ ܡܢ ٦٥,٨٢.

٣٤,٦ - ٦٥,٨٢

= ٣٤,٦٠ - ٦٥,٨٢

= ٣١,٢٢

٦٥,٨٢
٣٤,٦٠ -
٣١,٢٢

ܦܘܫܩܐ (٣)

ܠܡܫܟܚܬܐ ܕܦܘܪ̈ܫܐ ١٧٢,٢٨ - ٣٥,٠٩

١٣٧,١٩ = ٣٥,٠٩ - ١٧٢,٢٨

(٦) (١٢) (١) (١٨)
١٧٢,٢٨
٣٥,٠٩ -
―――――
١٣٧,١٩

ܦܘܫܩܐ (٤)

ܡܢ ١٣ ܐܦܪܘܫ ٧,٣٥١

ܫܪܝܐ

٧,٣٥١ - ١٣

= ١٣,٠٠٠ - ٧,٣٥١

= ٥,٦٤٩

(١٢) (٩) (٩) (١٠)
١٣,٠٠٠
٧,٣٥١ -
―――――
٥,٦٤٩

ܦܘܫܩܐ (٥)

ܐܦܪܘܫ : ١٣٠,٠٣ - ١٨,٧٩

١١١,٢٤ = ١٨,٧٩ - ١٣٠,٠٣

(٢) (٩) (٩) (١٣)
~ ٠,٠٣
١٨,٧٩ -
―――――
١١١,٢٤

ܕܘܪ̈ܫܐ (٩ - ١٠)

١ - ܐܫܟܚ ܦܘܪ̈ܫܐ ܕܡܢܝ̈ܢܐ ܗܠܝܢ ܕܠܬܚܬ :

(ܐ) ٤,٣٣٥ - ٢,٢١٢ =

(ܒ) ٥١,٩٥٠ - ٣٢,٥١٤ =

(ܓ) ١٨,٦٣٧ - ٧,٨١٩ =

(ܕ) ١٥٧,٠٠٦ - ٨١,٦٤٢ =

(ܗ) ٦٤,٩٥ - ٢١,٦٧٣ =

(ܘ) ١٩٢,٦٧٥ - ٨٩,٩ =

(ܙ) ٧ - ٥,٦٢٤ =

(ܚ) ١٣ - ٧,٦٥٤ =

(ܛ) ١٣٣,٥٠٤ - ٩٧ =

(ܝ) ٦٧,٠٠٨ - ٧,٠٧ =

٢ - ܙܒܢ ܠܗ ܦܪܘܫܐ ܠܬܪܬܝܢ ܛܘܦܣܐ ٧١,٦٥٠ ܕܝܢܪܐ. ܐܢ ܦܪܫܘܬܗ ܗܘܐ ܦܪܘܫܐ
ܠܐܚܪܢܐ ܦܐܫܐ ܡܢ ܡܢܬܐ ܕܩܕܡܝܐ ܕܝܢܪܐ. ܟܡܐ ܕܝܢܪܐ ܡܫܘܠܡܠܗ ܡܢ ܟܠ ܚܕ؟
٣ - ܐܝܬ ܚܕ ܦܠܚܐ ܡܠܟܐ ܒܣܘܣܝܐ ܢܘܪܝܗ ١٦,٣٢ ܡܬܪܐ . ܡܦܠܚܠܗ ܡܢܗ
٤٥,٨ ܡܬܪܐ ܠܬܪܥܬܐ ܒܣܘܣܝܐ. ܟܡܐ ܡܬܪܐ ܦܫܠܗܘܢ ܡܢ ܡܠܟܐ ܐܢ ܦܫܠܗ
ܒܝܕܗ ܚܕ ܕܦܠܚܠܗ ܡܢ ܡܠܟܐ ٣٢٥,٠ ܡܬܪܐ ܒܐܚܪܝܐ ܕܫܢܬܐ ܕܚܙܘܪܐ.
٤ - ܒܐܕ ܡܫܬܝܢ ܟܡܝܘܬܐ ٨,٠٩٥ ܕܝܢܪܐ ܡܢ ܢܩܦܬܗ ܝܘܡܢܐ، ܘܟܡܐ ܕܩܒܠ ܟܠܒܐ ܦܝܫܬܐ
١٥,٢٥٠ ܕܝܢܪܐ. ܟܡܐ ܕܝܢܪܐ ܦܝܫ ܠܝܘܡܐ ܟܠܗܝ؟
٥ - ܡܠܟܐ ܕܬܘܦܣܐ ٩٣,٦٠٥ ܟܝܠܘܓܪܡܐ. ܘܡܙܒܢܠܗ ܬܘܦܣܐ ܚܕ ܦܠܓܐ ܕܦܪܝܫܘܬܐ
ܡܢܝܢܐ ܒܪܕܝܗ ܡܠܟܐ ܒܐܕ ܚܕܢܐ ܕܚܕ ܝܘܡܐ ܟܡܝܘܬܐ ٦,٤٥٠ ܟܝܠܘܓܪܡܐ. ܟܡܐ
ܗܘܝܐܠܗ ܡܠܟܐ ܕܬܘܦܣܐ ܟܝܠܘܬܐ ܕܗܘܐ ܝܘܡܐ ؟
٦ - ܠܐܝܕ ܒܣܘܣܝܐ ܡܠܟܐ ܢܘܪܝܗ ١٧,٨٥ ܡܬܪܐ. ܡܦܠܚܠܗ ܡܢܗ ٦,٧ ܡܬܪܐ ܟܡܬܐ
ܠܬܪܥܬܐ ܒܣܘܣܝܐ. ܘܟܡܐ ܕܦܝܫ ܠܬܪܥܬܐ ܒܣܘܣܝܐ ܐܚܪܬܐ ܢܘܪܝܗ ٩,٧ ܡ . ܐܝܢܐ
ܡܬܡܛܝܠܗ ܠܝܘܡܐ ܡܠܟܐ ܐܢ ܐܝܬ ܗܘ ܡܠܟܐ ܦܫܬܐ ܡܢܗ ܠܡܣܩܬܐ ܕܗܘܐ ܡܘܠܝܐ ؟

(٩ - ١١) ܡܘܬܢܐ ܕܡܢܝܢܐ ܦܘܪܫܢܝܐ ܕܦܣܩܢܝܐ :

ܟܕ ܡܛܝܐ ܠܐܪܟܐ ܐܚܪܝܐ ܐܝܟ ܡܘܬܢܐ ܕܡܢܝܢܐ ܦܣܩܢܝܐ ܥܠ ܦܘܫܩܐ ܡܘܬܒܐ ܠܡܘܬܢܐ.
ܐܢ ܡܢ ܐܠܗ ܦܣܩܬܐ ܥܠ ܦܘܫܩܐ ܡܘܬܒܐ ܐܟܐ ܟܕ ܡܢܗ ܕܡܬܚܫܒ ܡܘܬܢܐ ܕܡܘܬܢܐ
ܕܟܠ ܐܟܣܡܐ ܠܐܪܟܐ ܦܣܩܬܐ ܡܢ ܦܠܓܐ ܡܘܬܒܐ ܕܐܪܟܐ ܟܡܐ ܕܐܝܬ ܐܝܟ ܦܘܫܩܐ
ܕܡܬܚܫܒ.
ܟܡܐ ܕܗܘܐ ܡܘܬܢܐ ܐܠܗܝܬܐ.

ܡܘܬܢܐ (١)

ܠܡܬܚܫܒܐ ܕܡܘܬܢܐ ٦,٦ × ٩,٢٤

ܦܘܫܩܐ : ܡܘܬܢܐ ܕܡܘܬܢܐ ܚܕ ܡܢ	٩ × ٦ = ٥٤ (ܠܡܢܐ؟)	٩٢٤
ܦܘܫܩܐ : ܡܘܬܢܐ ܕܡܘܬܢܐ ܘܟܠܗܝܢ	١٠ × ٧ = ٧٠ (ܠܡܢܐ؟)	٦٦

٥٥٤٤
٥٥٤٤٠
٦٠٩٨٤

ܡܘܕ ܗܘܐ ܟܡܘܢ ܡܘܬܢܐ ܕܡܘܬܢܐ ܡܬܚܫܒܐ ܒܝܢ ٥٤ ، ٧٠
ܘܦܣܩܬܐ ܠܡܘܬܒܘܬܐ ܕܡܘܬܢܐ ܕܡܬܚܫܒ ܐܝܟ ܦܘܫܩܐ ܦܣܩܢܝܐ ܥܠ
ܡܢ ܗܕܐ ܚܘܫܒܐ.

ܘܒܝܢ ٥٤ < ܣܘܟܡܐ < ٧٠

∴ ٥٤ < ٦٠,٩٨٤ < ٧٠

∴ ٦٠,٩٨٤ = ٦,٦ × ٩,٢٤

ܦܘܢܝܐ: (ܓ)

ܐܫܟܚ ܠܣܘܟܡܐ ܒܝܕ ܩܪܒܐ ܠܣܘܟܡܐ

(ܐ) ٣,٥ × ٢٣,٧ (ܒ) ١,٤ × ٨,٥٣

(ܓ) ٥,١٥ × ٣٤,٥٦ (ܕ) ٢٢,٥ × ٤,٦١٥

(ܐ) ܣܘܟܡܐ ܗܘ ٢٣ × ٣ = ٦٩

ܘܣܠܩ ܡܢ ٢٤ × ٤ = ٩٦

ܗܟܢܐ ܘܒܝܢ ٦٩ < ܣܘܟܡܐ < ٩٦

ܘܠܒܪܐ ܒܥܘܕܐ:

٨٢,٩٥ = ٣,٥ × ٢٣,٧

(ܒ) ١,٤ × ٨,٥٣ = ؟؟

ܣܘܟܡܐ ܡܩܪܒܐ ܗܘܐ ܒܝܢ ٨ ، ١٨

∴ ١١,٩٤٢ = ١,٤ × ٨,٥٣

(ܓ) ٥,١٥ × ٣٤,٥٦ = ؟؟

ܣܘܟܡܐ ܡܩܪܒܐ ܗܘܐ ܒܝܢ ٣٤ × ٥ ، ٣٥ × ٦

ܣܘܟܡܐ ܡܩܪܒܐ ܗܘܐ ܒܝܢ ١٧٠ ، ٢١٠

∴ ١٧٧,٩٨٤٠ = ٥,١٥ × ٣٤,٥٦

(ܕ) ٢٢,٥ × ٤,٦١٥ = ؟؟

ܣܘܟܡܐ ܡܩܪܒܐ ܗܘܐ ܒܝܢ ٤ × ٢٢ ، ٥ × ٢٣

ܣܘܟܡܐ ܡܩܪܒܐ ܗܘܐ ܒܝܢ ٨٨ ، ١١٥

∴ ١٠٣,٨٣٧٥ = ٢٢,٥ × ٤,٦١٥

```
   ٢٣٧
 × ٣٥
 ------
  ١١٨٥
  ٧١١٠
 ------
  ٨٢٩٥

   ٨٥٣
 × ١٤
 ------
  ٣٤١٢
  ٨٥٣٠
 ------
 ١١٩٤٢

    ٣٤٥٦
 ×   ٥١٥
 --------
   ١٧٢٨٠
   ٣٤٥٦٠
 ١٧٢٨٠٠٠
 --------
 ١٧٧٩٨٤٠

    ٤٦١٥
 ×   ٢٢٥
 --------
   ٢٣٠٧٥
   ٩٢٣٠٠
  ٩٢٣٠٠٠
 --------
 ١٠٣٨٣٧٥
```

ܡܢ ܛܘܦܣܐ ܥܠܝܐ ܡܬܚܙܝܐ ܐܝܟ ܗܘܐ ܕܐܬܐ :

> ܠܡܫܟܚܘ ܕܡܢܝܢܐ ܕܦܣܩܐ ܒܡܢܝܢܐ ܚܘܫܒܐ ܕܡܢܝܢܐ ܕܦܣܩܐ ܒܡܢܝܢܐ (ܠܡܫܟܚܘ ܕܡܢܝܢܐ ܕܦܣܩܐ ܒܡܢܝܢܐ ܚܘܫܒܐ) ܘܒܬܪ ܡܢܝܢܐ ܕܦܣܩܐ ܒܡܢܝܢܐ ܚܘܫܒܐ ܡܬܚܫܒ.

ܛܘܦܣܐ (٣)

ܐܫܟܚ ܚܘܫܒܐ ١,٢٣ × ٤,٥٦

ܫܪܝܐ :

٥٦٠٨٨ = ١٢٣ × ٤٥٦

ܘܡܢ ܒܬܪ ܕ ܡܢܝܢܐ (ܦܣܩܐ) ܗܘܐ ٤

ܕܦܣܩܐ ܒܡܢܝܢܐ ، ܗܢܐ ܘܡܢ ܗܘܐ ܡܢܝܢܐ ٦

ܗܟܝܠ : ٤,٥٦ × ١,٢٣ = ٥,٦٠٨٨

ܡܨܝܢ ܠܡܒܚܢܘ ܚܘܫܒܐ ܠܫܪܝܐ ܡܢ ܩܘܪܒܐ ܕܚܘܫܒܐ :

ܚܘܫܒܐ ܕܗܘܐ ܡܢ ١ ܘܥܕܡܐ ܠ ٤

ܗܢܘ ܕܝܢ ٤ < ܚܘܫܒܐ < ١٠

٤٥٦
١٢٣ ×
١٣٦٨
٩١٢٠
٤٥٦٠٠
٥٦٠٨٨

ܛܘܦܣܐ (٤)

ܡܨܝܢ ܠܡܦܠܚ ܒܛܘܦܣܐ (٣) ܠܡܫܟܚܘ ܕܚܘܫܒܐ ܗܠܝܢ ܐܝܟ ܕܐܬܐ ܡܢ ܗܘ ܕܡܬܚܙܐ ܕܐܬܐ ܕܐܬܐ ܥܠܝܐ ܕܚܘܫܒܐ ܕܦܣܩܐ :

(ܐ) ٤٥,٦ × ١٢,٣   (ܒ) [illegible] × ١٢٣ [illegible]

(ܓ) ٤٥,٦ × ٠,١٢٣   (ܕ) ٤٥٦٠ × ٠,١٢٣

ܫܪܝܐ :

(ܐ) ٤٥,٦ × ١٢,٣ = ٥٦٠,٨٨ (ܦܣܩܐ ܗܘܐ ܬܪܝܢ ܕܦܣܩܐ ܚܘܫܒܐ)

(ܒ) ٤٥٦ × ٠,١٢٣ = ٥٦,٠٨٨ (ܦܣܩܐ ܗܘܐ ٣ ܕܦܣܩܐ ܚܘܫܒܐ)

(ܓ) ٤٥,٦ × ٠,١٢٣ = ٥,٦٠٨٨ (ܦܣܩܐ ܗܘܐ ٤ ܕܦܣܩܐ ܚܘܫܒܐ)

(ܕ) ٤٥٦٠ × ٠,١٢٣ = ٥٦٠,٨٨٠ (ܦܣܩܐ ܗܘܐ ٣ ܕܦܣܩܐ ܚܘܫܒܐ)

ܬܘܪܓܡܐ (ܘ)

[illegible]

(ܐ) ١٠ × ١٢,٥   (ܒ) ١٠ × ٤,٧٥

(ܓ) ١٠ × ٣٧,٠٩   (ܕ) ١٠٠ × ٧٥,٤٨

(ܗ) ١٠٠ × ٥٢٩,٧   (ܘ) ١٠٠٠ × ١٣,٠٠٥

(ܙ) ١٠٠٠ × ١٧,٢٥   (ܚ) ١٠٠٠ × ٠,٠٩

ܚܘܠܠܐ :

(ܐ) ١٠ × ١٢٥ = ١٢٥٠

١٠ × ١٢,٥ = ١٢٥,٠ ([illegible])

= ١٢٥

(ܒ) ١٠ × ٤٧٥ = ٤٧٥٠

١٠ × ٤,٧٥ = ٤٧,٥٠ ([illegible])

= ٤٧,٥

(ܓ) ١٠ × ٣٧٠٩ = ٣٧٠٩٠

١٠ × ٣٧,٠٩ = ٣٧٠,٩ ܠܡܢܐ ؟

(ܕ) ١٠٠ × ٧٥٤٨ = ٧٥٤٨٠٠

١٠٠ × ٧٥,٤٨ = ٧٥٤٨ ܠܡܢܐ ؟

(ܗ) ١٠٠ × ٥٢٩,٧ = ٥٢٩٧٠ ܠܡܢܐ ؟

(ܘ) ١٠٠٠ × ١٣,٠٠٥ = ١٣٠٠٥ ܠܡܢܐ ؟

(ܙ) ١٠٠٠ × ١٧,٢٥ = ١٧٢٥٠ ܠܡܢܐ ؟

(ܚ) ١٠٠٠ × ٠,٠٩ = ٩٠ ܠܡܢܐ ؟

> [illegible] ١٠ ܐܘ ١٠٠ ܐܘ ١٠٠٠ [illegible]
> [illegible] .

ܬܘܪ̈ܓܡܐ (٩ - ١١)

١ - ܒܩܪ ܡܢ ܫܪܝܪܘܬܐ ܕܚܘܫ̈ܒܢܐ ܒܝܢ ܦܘܫ ܠܦܘ̈ܫܟܐ ܕܒܥܒܪ ܠܡܚܝܢܐ :

(ܐ) ٢٩٤ = ٤,٩ × ٠,٦	(ܚ) ١٢٠ = ١٠ × ١,٢
(ܒ) ٤٠٥ = ١,٥ × ٢,٧	(ܛ) ٥٠٠ = ١٠٠ × ٠,٥
(ܓ) ٣٥٠١١ = ٢٢,٣ × ١٥,٧	(ܝ) ٧٥٠٠٠ = ١٠٠٠ × ٧,٥
(ܕ) ٣٠٦٨٨ = ١,٣٧ × ٢,٢٤	(ܟ) ٦٠٠٠ = ١٠٠٠ × ٠,٠٦
(ܗ) ٣٥٧٨٦ = ٢,٩ × ١٢٣٤	(ܠ) ٥٠٠ = ١٠٠ × ٠,٠٠٥
(ܘ) ٢٤٧١٠٤٥ = ٧,٠٣ × ٣٥,١٥	(ܡ) ٢٧١٠٠٠ = ١٠٠٠ × ٢,٧١
(ܙ) ١٦١٥٢٢٤ = ٨,٠٦ × ٢٠٠٤	(ܢ) ٦٧٥٠ = ١٠ × ٦,٧٥

٢ - ܒܛܦܣܐ ܡܫܚܬܐ ܡܢ ١٢ ܡܕܝܢ̈ܬܐ . ܐܢ ܐܘܪܟܐ ܕܟܠ ܛܦܣܐ ܐܝܬ ܐܘܪܟܐ ܕܚܕ ܡܕܝܢܬܐ ܗܘܐ ٣,٨٥ ܡܝܬܪ̈ܐ.

٣ - ܠܗܘܢ ܬܠܡܝܕ̈ܐ ܒܡܕܪܫܬܐ ܡܫܚܬܐ ܕܐܝܬ ܦܘܠܚܢܐ ٤٥ ܘ ܡܝܬܪ̈ܐ. ܐܢ ܠܗܘܢ ܬܠܡܝܕ̈ܐ ܡܢ ܟܠ ܚܕ ܠܚܕܐ ١١٥ ܦܘܠܚܢܐ. ܐܢ ܟܡܐ ܡܫܚܬܐ ܡܢ ܟܠ ܚܕ ܠܚܕܐ؟

٤ - ܡܚܝܬܐ ܕܦܘܪ̈ܫܢܐ ܕܟܠܗ ٣٨ ܒܝܘܡܐ ܡܫܚܬܐ. ܟܢ ܐܝܬ ܠܟܠ ܚܕ ܝܘܡܐ ܒܡܫܚܬܐ ٢٥٠ ܘ٣٠ ܕܝܢܪ̈ܐ ܒܟܠ ܝܘܡܐ ܕܝܢܪ̈ܐ ܐܝܟܢ ܡܚܝܬܐ ܟܠܗܘܢ ؟

٥ - ܙܒܢ ܠܗ ܚܕ ٧٥ ܘ٢ ܟܝܠܘܓܪ̈ܡܐ ܡܢ ܡܫܚܐ ܒܕܡܐ ܕܚܕ ܟܝܠܘܓܪܡܐ ܡܢܗ ٧٥٠ ܘ٠ ܕܝܢܪ̈ܐ . ܟܡܐ ܦܫܝܛ ܚܕ ܠܡܙܒܢܘܬܐ . ܘܟܡܐ ܦܫܛ ܠܡܙܒܢܘܬܐ ܐܢ ܙܒܢ ܠܗ ܚܡܫܐ ܟܝܠܘܓܪ̈ܡܐ ܡܢ ܗܢܐ ܡܫܚܐ؟

٦ - ܒܝܬܐ ܦܘܠܚܢܐ ܠܒܝܬܐ ܕܡܕܝܢܬܐ ܡܢ ܟܠ ܚܕ ܒܕܡܐ ܕܚܕ ٦٠٠ ܘ٢ ܕܝܢܪ̈ܐ . ܐܢ ܐܝܬ ܗܘܐ ܒܟܠ ܦܘܠܚܢܐ ܡܫܚܬܐ ٤٢ ܕܝܢܪ̈ܐ ܐܢ ܟܡܐ ܗܘܐ ܒܡܫܚܬܐ ܠܒܝܬܐ ܕ ٧ ܝܘܡ̈ܢܐ ܗܘ ܠܗ ؟ ܘܠܟܡܐ ؟



ܡܢܐ ܚܝܠܐ ܒܕܪܓܘܬܐ ٤ ܘ١٣ ܡܢܝܢܐ - ١ ܘ٦ ܡܢܝܢܐ ، ܡܬܘܪ ܠܡܠܝܫܘܬܐ ܕܓܘܐ ܚܕܐ.

١٠ - ١ ܫܘܪܝܐ ܕܡܫܘܚܬܐ - ܡܕܥܐ ܕܡܫܘܚܬܐ

ܥܘܒܕܐ (١)

ܦܫܘܛ ܡܫܘܚܬܐ ܕܦܣܝܐ ܕܨܘܪܬܐ (١٠ - ١) ܘܡܫܘܚܬܐ ܕܦܣܝܐ ܕܨܘܪܬܐ (١٠ - ٢). ܘܡܩܪܒ ܦܫܘܛ ܡܫܘܚܬܐ ܕܦܣܝܐ ܕܨܘܪܬܐ (١٠ - ٣) ܘܡܫܘܚܬܐ ܕܦܣܝܐ ܕܨܘܪܬܐ (١٠ - ٤) ܡܢ ܚܙܝܐ ܗܘܐ ؟

ܒܬܠ ܠܗܘܢܐ

ܨܘܪܬܐ (١٠ - ٢)

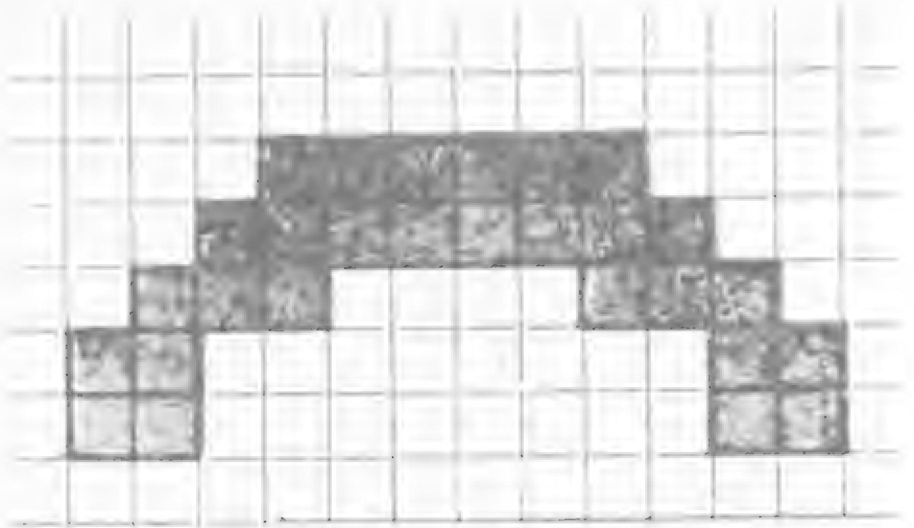
ܨܘܪܬܐ (١٠ - ١)

ܨܘܪܬܐ (١٠ - ٤)

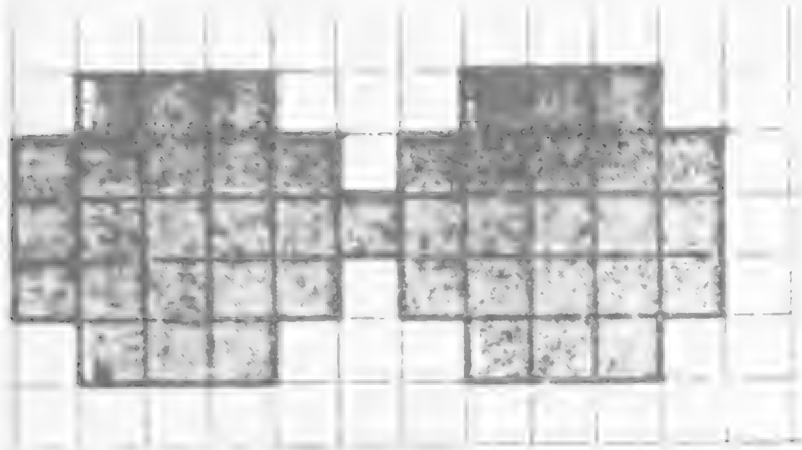
ܨܘܪܬܐ (١٠ - ٣)

ܬܘܪܕܐ (٢)

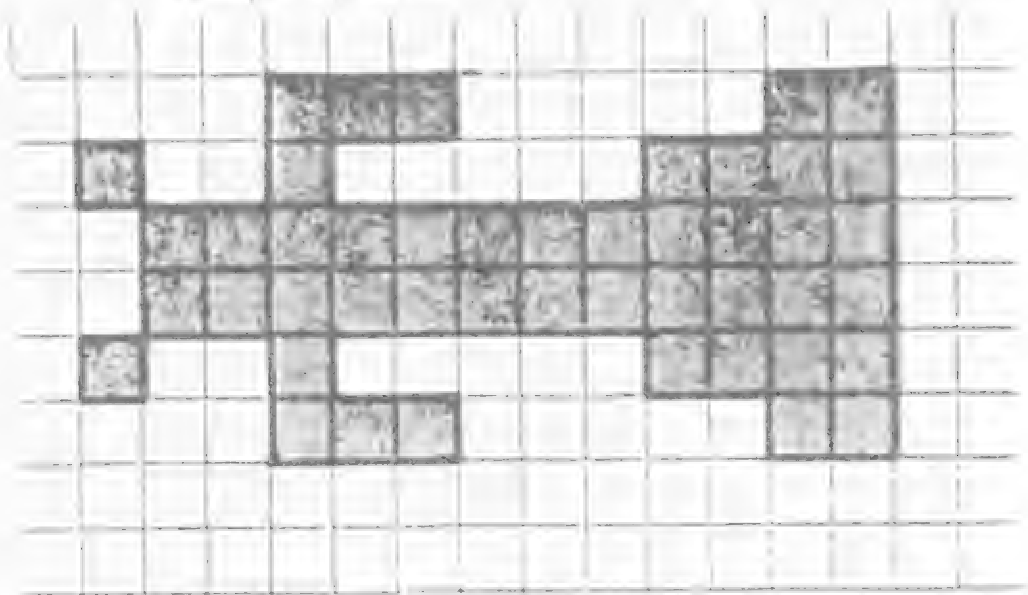
ܫܩܘܠ ▢ : ܚܕܝܘܬܐ ܕܡܫܘܚܬܐ ܕܫܛܝܚܘܬܐ ، ܘܚܫܘܒ ܫܛܝܚܘܬܐ ܕܟܠ ܨܘܪܬܐ ܡܢ ܠܬܚܬ :



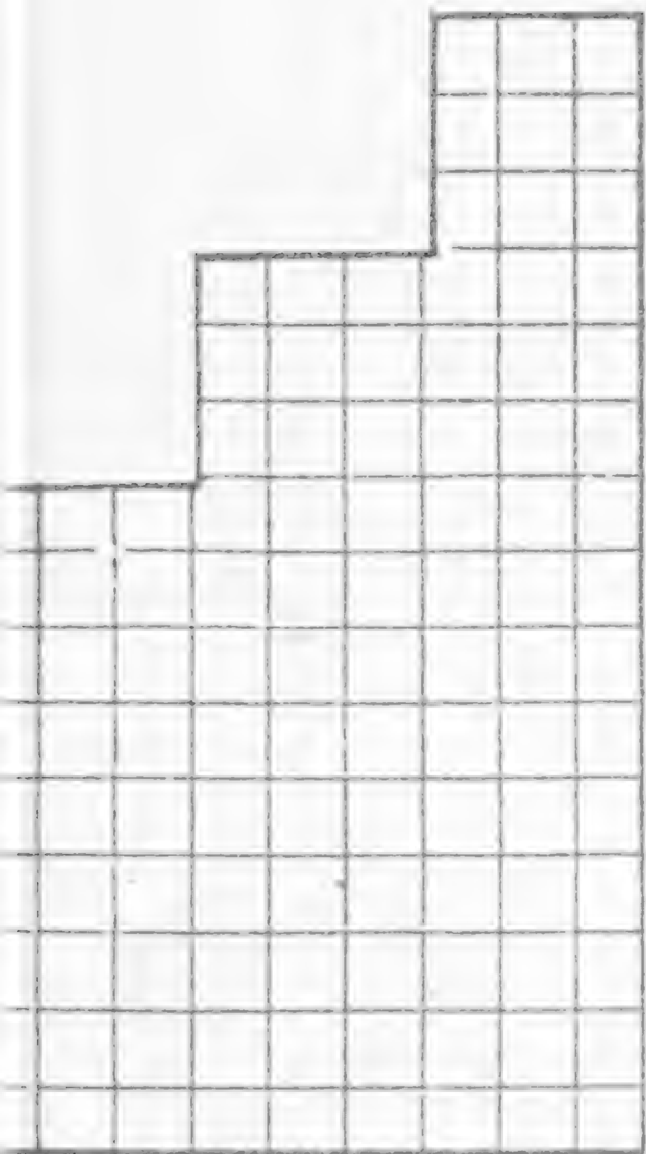
ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ = ܚܕܝܘܬܐ ܡܪܒܥܬܐ



ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ = ܚܕܝܘܬܐ ܡܪܒܥܬܐ

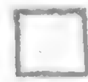


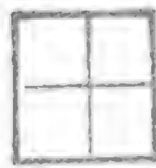
ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ = ܚܕܝܘܬܐ ܡܪܒܥܬܐ

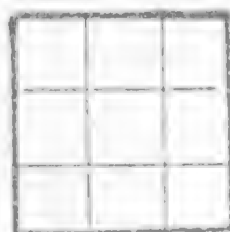


ܬܘܪܕܐ (٣)

ܒܡܥܒܕܐ ܕܚܕܝܘܬܐ ܕܫܛܝܚܘܬܐ


(١)


(٢)


(٣)

ܘܐܚܪܢ ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ

ܡܢ ܒܬܪ ܠܡܫܠܡܘ ܠܥܘܒܕܐ :

ܐ. ܡܢܝܢܐ ܕܚܕܝܘܬܐ ܕܫܛܝܚܘܬܐ ܝܠܗ	(١)	(٢)	(٣)
ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ ܡܪܘܒܥܬܐ ܝܠܗ :			

ܬܘܪܓܡܐ (٤)

ܣܟܘܡ ܡܫ̈ܘܚܝܬܐ ܕܡܪ̈ܒܥܐ ܕܫܛܝܚܘܬܐ

ܚܕܢܝܬܐ ܐܪ̈ܒܥܝܬܐ ܬܡܢܝܬܐ

ܘܪܫܘܡ ܫܛܝܚܘܬܐ ܕܟܠ ܨܘܪܬܐ ܡܢ ܨܘܪ̈ܬܐ ܕܐܬܝܢ، ܘܣܕܘܪ ܠܦܠܛ̈ܐ ܒܡܘܬܒܐ ܗܢܐ ܕܠܬܚܬ :

ܨܘܪܬܐ (١)

ܨܘܪܬܐ (٢)

ܨܘܪܬܐ (٣)

ܨܘܪܬܐ (٤)

ܐ- ܡܫܘܚܬܐ ܕܫܛܝܚܘܬܐ ܝܠܗ :	ܡܫܘܚܬܐ ܚܕܢܝܬܐ	ܡܫܘܚܬܐ ܐܪ̈ܒܥܝܬܐ	ܡܫܘܚܬܐ ܬܡܢܝܬܐ
ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ (١) ܝܠܗ	٤٨	١٢	٦
ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ (٢) ܝܠܗ			
ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ (٣) ܝܠܗ			
ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ (٤) ܝܠܗ			

ܬܘܪܓܠܐ (٥) ܚܫܘܒ ܡܘܫܚܬܐ ܕܫܛܝܚܘܬܐ ܐܝܟ ܡܪܒܥܝܘܬܐ ܡܪܒܥܐ (ܣܡ٢)
ܘܫܟܘܚ ܫܛܝܚܘܬܐ ܕܟܠ ܨܘܪܬܐ ܡܢ ܨܘܪ̈ܬܐ ܕܠܬܚܬ :

ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ = ܣܡ٢.

ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ = ܣܡ٢.

ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ = ܣܡ٢.

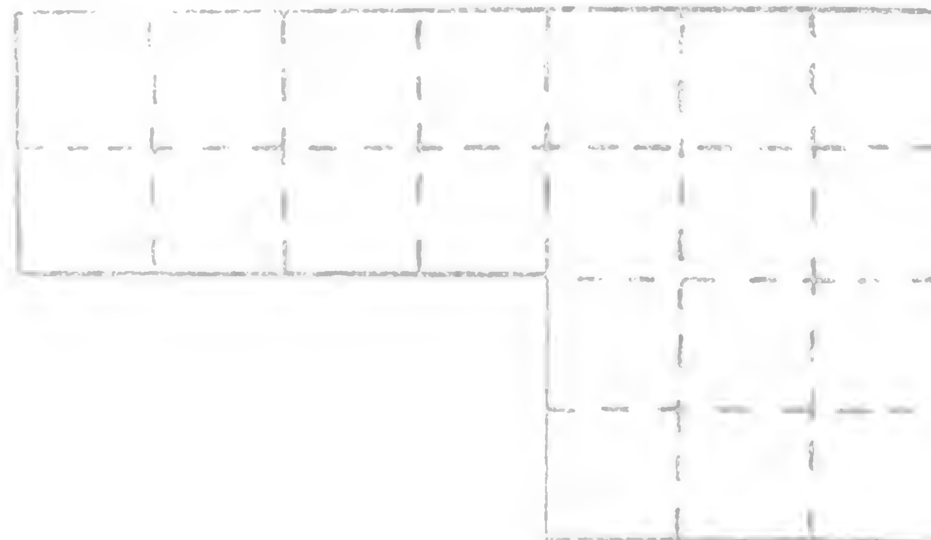
ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ = ܣܡ٢.

ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ = ܣܡ٢.

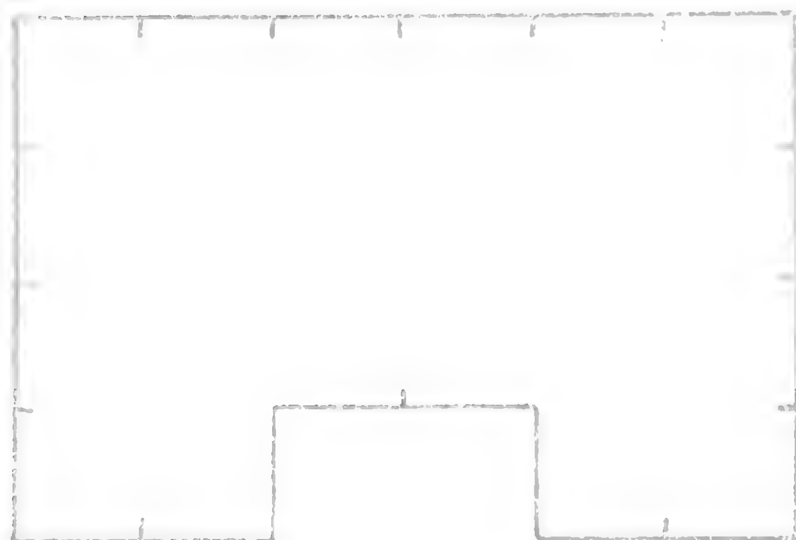
ܫܛܝܚܘܬܐ ܕܨܘܪܬܐ = ܣܡ٢.

ܬܡܪܘܢܐ (٦)

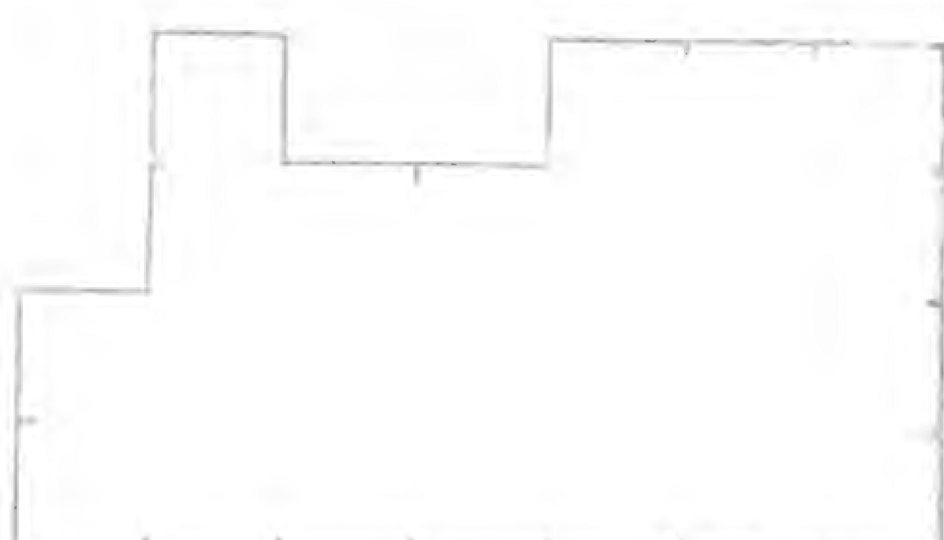
ܦܠܘܓ ܟܠ ܚܕ ܡܢ ܨܘܪ̈ܬܐ ܕܐܬܝ ܠܦܘ̈ܣܩܐ ܡܪ̈ܒܥܐ ܡܫܘܚܬܐ ܕܟܠ ܚܕ ܡܢܗܘܢ ١ ܣܡ٢ ܘܡ
ܐܫܟܚ ܡܫܘܚܬܐ ܕܟܠ ܨܘܪܬܐ ܒܡܫܬܡܫܢܘܬܐ ܡܪ̈ܒܥܐ ܐܝܟ ܕܗܘ ܚܙܝܐ :



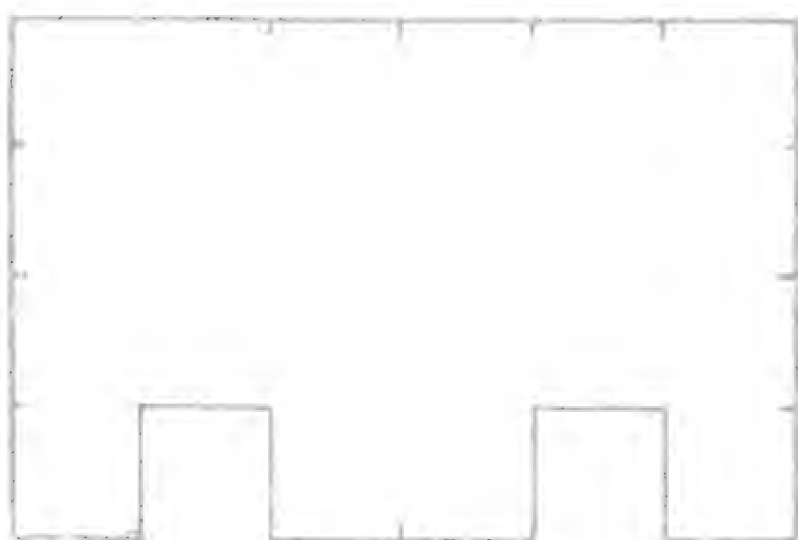
ܡܫܘܚܬܐ ܕܨܘܪܬܐ = ٢٠ ܣܡ٢.



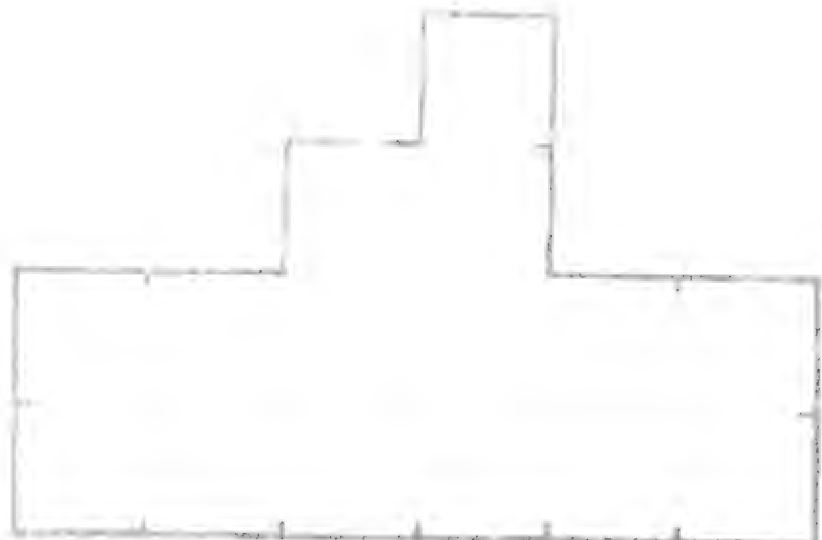
ܡܫܘܚܬܐ ܕܨܘܪܬܐ = ܣܡ٢.



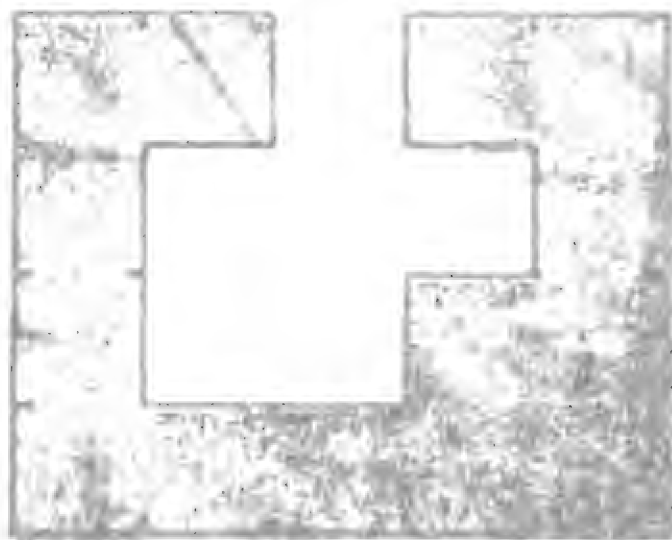
ܡܫܘܚܬܐ ܕܨܘܪܬܐ = ܣܡ٢.



ܡܫܘܚܬܐ ܕܨܘܪܬܐ = ܣܡ٢.

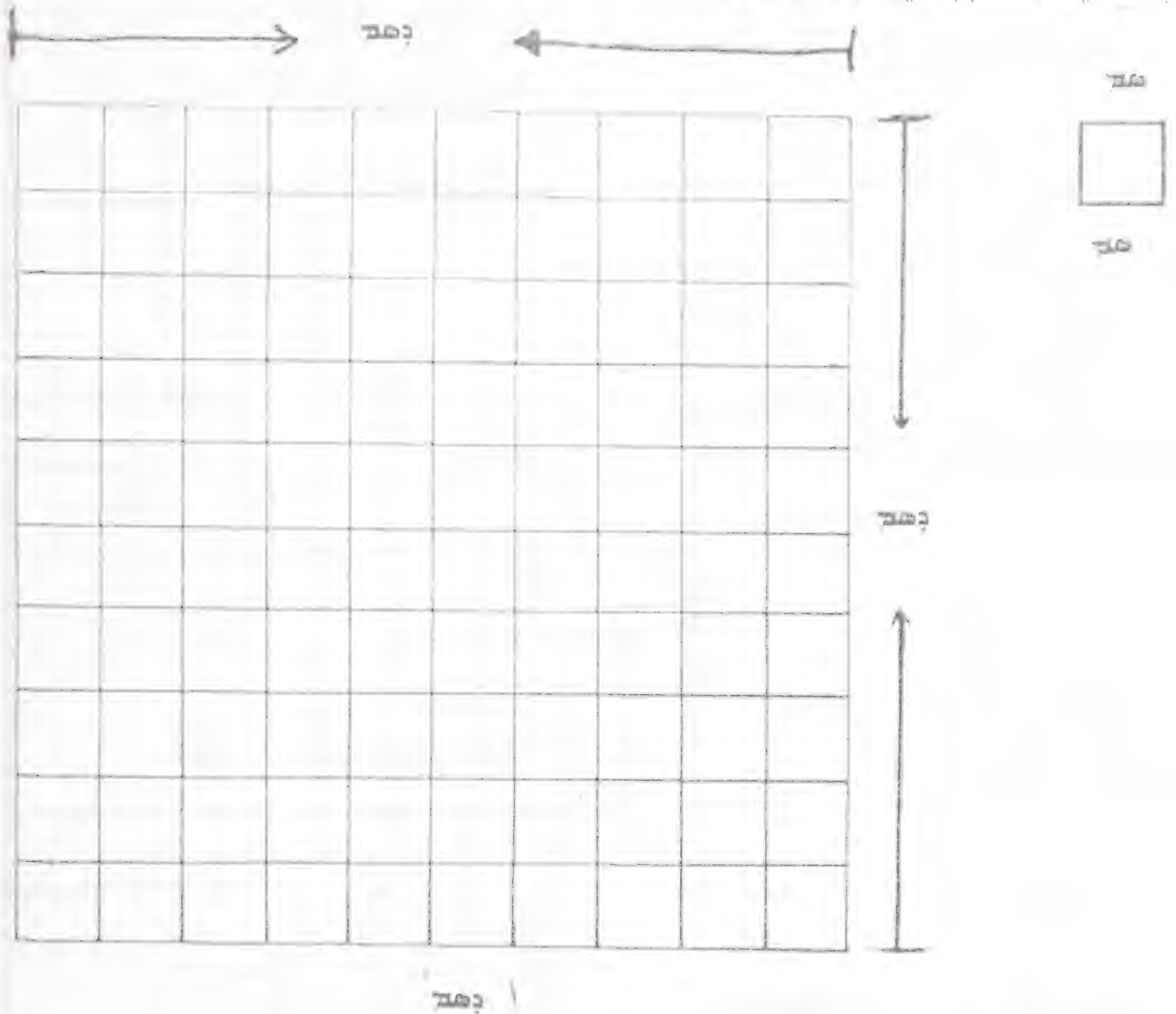


ܡܫܘܚܬܐ ܕܨܘܪܬܐ = ܣܡ٢.



ܡܫܘܚܬܐ ܕܨܘܪܬܐ = ܣܡ٢

ܡܬܚܫܚ ܠܗ ܘܗܘ ܕܝܠܗ ܣܢܛܝܡܝܛܪܐ ܡܪܒܥܐ (ܣܡ²) ܐܝܟ ܡܫܘܚܬܐ ܠܡܫܚܬܐ ܕܦܫܝܛܘܬܐ.
ܘܡܬܚܫܒܐ ܕܦܫܝܛܘܬܐ ܕܡܪܒܥܐ ܡܪܒܥܬܐ ܕܐܘܪܟܐ ܕܦܠܓܗ ١ ܣܡ. ܡܬܩܪܝܐ ܣܢܛܝܡܝܛܪܐ
ܡܪܒܥܐ (١ ܣܡ²).
ܘܐܝܟܢܐ ܗܟܢܐ ܠܡܪܒܥܐ ܡܪܒܥܬܐ ܕܐܘܪܟܐ ܕܦܠܓܗ ١ ܕܣܡ، ܩܪܝܢܢ (ܕܣܝܡܝܛܪܐ ܡܪܒܥܐ)
ܘܟܬܒܝܢܢܗ ܗܟܢܐ ܣܘܡܐ (١ ܕܣܡ²)



ܘܡܢܝܢܐ ܗܠܝܢ ܕܡܫܘܚܬܐ ܕܦܫܝܛܘܬܐ ܗܕܐ (ܕܣܝܡܝܛܪܐ ܡܪܒܥܐ) ܝܗܒ ܡܢܝܢܐ ܗܠܝܢ
ܡܢ ܡܫܘܚܬܐ ܕܦܫܝܛܘܬܐ ܙܥܘܪܬܐ (ܣܢܛܝܡܝܛܪܐ ܡܪܒܥܐ)، ܐܝܟ ܕܡܚܘܝܐ ܗܠܝܢ ܕ:

$$١ \text{ ܕܣܡ}^{٢} = ١٠٠ \text{ ܣܡ}^{٢}$$

١ ܣܡ² = ܡܢܬܐ ܡܢ ܡܐܐ ܡܢܘܬܐ ܡܢ ܚܕܐ ܡܢܘܬܐ ܕܣܝܡܝܛܪܐ ܡܪܒܥܐ. ܗܟܝܠ

$$١ \text{ ܣܡ}^{٢} = ٠,٠١ \text{ ܕܣܡ}^{٢}$$

ܬܘܪܓܡܐ (٧)

ܡܠܝ ܐܝܟ ܠܗ ܠܘܚܐ :

(ܐ) ٧ ܕܣܡ٢ = ٧ × ١٠٠ ܣܡ٢ = ٧٠٠ ܣܡ٢

٤ ܕܣܡ٢ = ٤ × □ ܣܡ٢ = □ ܣܡ٢

١,٥ ܕܣܡ٢ = □ × ١٠٠ ܣܡ٢ = □ ܣܡ٢

٠,٨ ܕܣܡ٢ = □ × □ ܣܡ٢ = □ ܣܡ٢

٩/٥ ܕܣܡ٢ = □ × □ ܣܡ٢ = □ ܣܡ٢

٦ ٤/٥ ܕܣܡ٢ = □ × □ ܣܡ٢ = □ ܣܡ٢

(ܒ) ٨٠٠ ܣܡ٢ = ٨٠٠ × ٠,٠١ ܕܣܡ٢ = ٨ ܕܣܡ٢

٧٥٠ ܣܡ٢ = □ × ٠,٠١ ܕܣܡ٢ = □ ܕܣܡ٢

١٤٠ ܣܡ٢ = ١٤٠ × □ ܕܣܡ٢ = □ ܕܣܡ٢

٣٦ ܣܡ٢ = □ × □ ܕܣܡ٢ = □ ܕܣܡ٢

٨ ܣܡ٢ = □ × □ ܕܣܡ٢ = □ ܕܣܡ٢

٢٣,٤ ܣܡ٢ = □ × □ ܕܣܡ٢ = □ ܕܣܡ٢

٧/٤ ܣܡ٢ = □ × □ ܕܣܡ٢ = □ ܕܣܡ٢

٦ ٢/٥ ܣܡ٢ = □ × □ ܕܣܡ٢ = □ ܕܣܡ٢

ܗܫܐ ܕܝܕܥܠܘܟܘܢ ܕܣܢܛܝܡܝܬܪܐ ܠܡܕܡܘܬܐ ܟܝܠ ܟܝܠܬܐ ܡܢ ܕܝܣܝܡܝܬܪܐ ܡܪܒܥܐ ܠܣܢܛܝܡܝܬܪܐ ܕܡܪܒܥܘܬܐ ܘܦܪܫܢܝܬܐ ܒܝܢ ܗܘܐ ܠܗ ܦܝܫܐ ܣܝܡܐ ܡܪܒܥܘܬܐ ܠܚܘܪܙܐ ܐܝܟ ܡܢܝܢܐ ܐܘ ܠܦܬܐ ܕܦܢܝܬܐ ܐܘ ܦܬܐ ܠܡܢܝܢܐ .. ܘܒܪܘ.

ܘܣܝܡܘܬܐ ܕܡܢܝܢܐ ܕܡܪܒܥܘܬܐ ܚܕܐ ܝܠܗ ܡܝܬܪܐ ܡܪܒܥܐ ܘܗܘܝܐ ܡܪܒܥܘܬܐ ܕܦܬܝܐ ܡܪܒܥܬܐ ܝܘܪܟܐ ܕܐܠܠܗ ܚܕ ܡܝܬܪܐ.

ܡܝܬܪܐ = ١٠ ܕܝܣܝܡܝܬܪܐ

ܕܝܣܝܡܝܬܪܐ = ١٠ ܣܢܛܝܡܝܬܪܐ

ܡܝܬܪܐ = ١٠٠ ܣܢܛܝܡܝܬܪܐ

ܘܗܳܫܳܐ ܕܪ̈ܳܓܶܐ ܐܰܚܪ̈ܶܢܶܐ ܕܝܼܠܶܗ ܡܪ̈ܰܒܥܶܐ ܕܐܰܠܦܳܐ، ܡܫܰܚܠܦܳܢ̈ܝܳܬܳܐ

ܡܝܬܪܐ ܡܪܒܥܐ	= ١٠ × ١٠ = ١٠٠	ܕܝܣܝܡܝܬܪܐ ܡܪܒܥܐ
ܕܝܣܝܡܝܬܪܐ ܡܪܒܥܐ	= ١٠ × ١٠ = ١٠٠	ܣܢܬܝܡܝܬܪܐ ܡܪܒܥܐ
ܡܝܬܪܐ ܡܪܒܥܐ	= ١٠٠ × ١٠٠ = ١٠٠٠٠	ܣܢܬܝܡܝܬܪܐ ܡܪܒܥܐ

ܣܢܬܝܡܝܬܪܐ ܡܪܒܥܐ = ١٠٠٠,٠ ܡܝܬܪܐ ܡܪܒܥܐ
ܣܢܬܝܡܝܬܪܐ ܡܪܒܥܐ ١٠,٠ ܕܝܣܝܡܝܬܪܐ ܡܪܒܥܐ
ܕܝܣܝܡܝܬܪܐ ܡܪܒܥܐ = ١٠ ٠ ܡܝܬܪܐ ܡܪܒܥܐ

ܚܘܼܪܳܕܳܐ (٨)

(ܐ) ܫܰܡܠܶܐ ܐܰܝܟ ܕܰܠܬܰܚܬ:

٥ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ = ٥ × ١٠٠ ܕܣܡ^{2} = ٥٠٠ ܕܣܡ^{2}

١٢ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ = ١٢ × ...... ܕܣܡ^{2} = ... ܕܣܡ^{2}

٢,٥ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ = ... × ...... ܕܣܡ^{2} = ... ܕܣܡ^{2}

$\frac{١}{٥}$ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ = ... × ...... ܕܣܡ^{2} = ... ܕܣܡ^{2}

(ܒ) ܫܰܡܠܶܐ ܐܰܝܟ ܕܰܠܬܰܚܬ:

١٥ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ = ١٥ × ١٠٠٠٠ ܣܡ^{2} = ١٥٠٠٠٠ ܣܡ^{2}

٧,٢٥ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ ٧,٢٥ × ...... ܣܡ^{2} = ... ܣܡ^{2}

١٣,٥ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ ...... × ١٠٠٠٠ ܣܡ^{2} = ... ܣܡ^{2}

٧ $\frac{١}{٢}$ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ ...... × ...... ܣܡ^{2} = ... ܣܡ^{2}

(ܓ) ܫܰܡܠܶܐ ܐܰܝܟ ܕܰܠܬܰܚܬ:

٦٠٠ ܣܡ^{2} = ٦٠٠ × ٠١,٠ ܕܣܡ^{2} = ٦ ܕܣܡ^{2}

٩٠٠ ܣܡ^{2} = ... × ...... ܕܣܡ^{2} = ... ܕܣܡ^{2}

١٥٠٠ ܣܡ^{2} = ... × ...... ܕܣܡ^{2} = ... ܕܣܡ^{2}

٢٤٧ ܣܡ^{2} = ... × ...... ܕܣܡ^{2} = ... ܕܣܡ^{2}

(ܕ) ܡܠܝ ܐܝܟ ܠܬܚܬ:

٥٠ ٠٠٠ ܣܡ² = ٥٠ ٠٠٠ × ٠,٠٠٠١ ܡܝܛܪܐ ܡܪܒܥܐ = ܡܝܛܪܐ ܡܪܒܥܐ

٣٧٠ ٠٠٠ ܣܡ² = × ܡܝܛܪܐ ܡܪܒܥܐ = ܡܝܛܪܐ ܡܪܒܥܐ

٤٦ ٠٠٠ ܕܣܡ² = ٤٦ ٠٠٠ × ٠,٠١ ܡܝܛܪܐ ܡܪܒܥܐ = ٤٦٠ ܡܝܛܪܐ ܡܪܒܥܐ

٥٧٠ ٠٠٠ ܕܣܡ² = × ܡܝܛܪܐ ܡܪܒܥܐ = ܡܝܛܪܐ ܡܪܒܥܐ

٢ ٥٠٠ ܣܡ² = ٢٥٠٠ × ٠,٠١ ܕܣܡ² = ٢٥ ܕܣܡ²

٣٥ ٠٠٠ ܣܡ² = × ܕܣܡ² = ܕܣܡ²

(١٠ - ٢) ܡܫܘܚܬܐ ܕܦܫܝܛܐ ܡܠܒܢܐ:

ܐܚܙܝ ܡܨܘܪ̈ܬܐ ܠܬܚܬ ܐܪܒܥܐ ܦܫܝܛ̈ܐ ܡܠܒܢ̈ܐ. ܐܝܟ ܡܫܘܚܬܐ ܕܟܠ ܚܕ ܡܢܗܘܢ ܒܡܪ̈ܒܥܐ ܕܣܢܬܝܡܝܛܪܐ ܡܪܒܥܐ. ܘܥܒܕ ܠܡܫܘܚܬܐ ܒܡܘܪܟܐ ܕܐܘܪܟܐ X ܦܬܝܐ.

ܚܫܘܒ ܠܡܠܝܐ ܒܣܘܪܓܕܐ ܕܐܬܐ :

ܡܢܝܢܐ ܕܡܪܒܥܐ	ܫܛܝܚܘܬܐ	ܐܘܪܟܐ	ܦܬܝܘܬܐ	ܐܘܪܟܐ × ܦܬܝܘܬܐ
١	ܣܡ²	ܣܡ	ܣܡ	ܣܡ²
٢	ܣܡ²	ܣܡ	ܣܡ	ܣܡ²
٣	ܣܡ²	ܣܡ	ܣܡ	ܣܡ²
٤	ܣܡ²	ܣܡ	ܣܡ	ܣܡ²

ܚܙܝܬܐ ܕܡܫܬܟܚܐ ܠܡܠܝܬܐ ܕܐܬܐ :

ܫܛܝܚܘܬܐ ܕܡܪܒܥܐ ܡܫܘܚܬܐ = ܐܘܪܟܐ × ܦܬܝܘܬܐ

ܘܐܢ ܪܫܡܢܢ ܠܫܛܝܚܘܬܐ ܕܡܪܒܥܐ ܡܫܘܚܬܐ ܒܐܬܘܬܐ ܫ ܘܠܐܘܪܟܐ ܒܐܬܘܬܐ ܐ ܘܠܦܬܝܘܬܐ ܦ ܗܘܝܐ

ܫ = ܐ × ܦ

ܗܐ ܡܬܠܐ :

ܡܪܒܥܐ ܡܫܘܚܬܐ ܕܐܘܪܟܗ ܐ = ١٢ ܣܡ ܘܦܬܝܘܬܗ ܦ = ٨ ܣܡ

ܫܛܝܚܘܬܗ ܫ = ܐ × ܦ

= ١٢ ܣܡ × ٨ ܣܡ

= ٩٦ ܣܡ²

ܬܘܪܓܡܐ (1)

(2) ܡܪܒܥܐ ܡܫܘܚܬܐ ܕܐܘܪܟܗ ܐ = ١٠ ܕܣܡ ܘܦܬܝܘܬܗ ܦ = ٧,٥ ܕܣܡ

ܫܛܝܚܘܬܗ ܫ = ܐ × ܦ

= [ ] ܕܣܡ × ٧,٥ ܕܣܡ

= [ ] ܕܣܡ²

(ܓ) ܦܢܝܬܐ ܡܩܒܠܬܐ ܕܐܘܪܟܗ ܐ = $14\frac{1}{2}$ ܡܝܛܪܐ ܘܦܬܝܘܬܗ ܦ = ٦,٢٥ ܡܝܛܪܐ

ܡܫܘܚܬܗ ܫ = $14\frac{1}{2}$ × ☐ ܡܝܛܪܐ ܡܪܒܥܐ

= ☐ × ☐ ܡܝܛܪܐ ܡܪܒܥܐ

= ☐ ܡܝܛܪܐ ܡܪܒܥܐ

(ܕ) ܦܢܝܬܐ ܡܩܒܠܬܐ ܕܐܘܪܟܗ ܐ = ٧ ܡܝܛܪܐ ܘܦܬܝܘܬܗ ܦ = ٥,٢ ܣܡ

ܡܫܘܚܬܗ ܫ = ☐ ܡܝܛܪܐ × ٥,٢ ܣܡ

= ☐ ܣܡ × ☐ ܣܡ

= ☐ ܣܡ²

(ܗ) ܦܢܝܬܐ ܡܩܒܠܬܐ ܡܫܘܚܬܗ ܫ = ٦٣ ܡܝܛܪܐ ܡܪܒܥܐ ܘܦܬܝܘܬܗ ܦ = ٧ ܡܝܛܪܐ

ܫܐܠܬܐ ܠܗ ܡܢܝܢܐ ܕܐܘܪܟܐ .

ܫ = ܐ × ܦ

٦٣ = ܐ . ☐

ܐ = ☐ ܡܝܛܪܐ (ܡܢܝܢܐ ܗܕܐ ܕܐܘܪܟܐ ܕܦܢܝܬܐ)

ܦܬܓܡܐ (ܐ)

ܚܩܠܐ ܡܩܒܠܬܐ ܕܐܘܪܟܗ ܗܘ ٤,٥ ܡܝܛܪܐ ܘܦܬܝܘܬܗ ٣ ܡܝܛܪܐ. ܦܠܚܘܬܗ ܕܙܪܥܐ ܡܫܘܚܬܐ ܕܡܝܛܪܐ ܡܪܒܥܐ ٢٠ ܕܝܢܪܐ. ܟܡܐ ܕܝܢܪܐ ܦܠܚܘܬܗ ܕܙܪܥܐ ܚܩܠܐ؟

ܦܘܫܩܐ :

ܡܫܘܚܬܐ ܕܚܩܠܐ ܫ = ܐ × ܦ

= ٤,٥ × ٣ ܡܝܛܪܐ ܡܪܒܥܐ

= ١٣,٥ ܡܝܛܪܐ ܡܪܒܥܐ

ܦܠܚܘܬܐ ܕܙܪܥܐ ܕܚܩܠܐ = ١٣,٥ × ٢٠ = ٢٧٠ ܕܝܢܪܐ

ܦܬܓܡܐ (ܒ)

ܐܝܬ ܐܪܥܐ ܡܩܒܠܬܐ ܕܡܫܘܚܬܗ ١٢٠ ܡܝܛܪܐ ܡܪܒܥܐ. ܐܢ ܦܬܝܘܬܗ ܗܘܐ ܡܝܛܪܐ ܡܢܝܢܐ ܐܘܪܟܗ ܡܢ ܚܫܒܐ ܐܚܪܢܐ.

ܡܬܠܐ :

ܫܛܝܚܘܬܐ ܕܡܠܒܢܐ ܐ = ܒ × ܓ

١٢٠ = ܣ × ٨

ܠܡܫܟܚܢܘܬܐ ܕ ܐ ܒܥܝܢ ܚܕܐ ܠܡܕܥܐ ܕܐܝܟ ܗܘܝܐ ܒ ٨ ܐܡܝܢ ܘܗܘ ١٢٠ ܘܫܘܟܠܠܐ ܕܡܫܘܚܬܐ ܕܝܠܗ ܘܟܠܝܠܘܬܐ :

ܣ = ١٢٠ ÷ ٨ = ١٥ ܡܝܬܪ̈ܐ

ܚܘܕܪܐ = ٢ × ٨ + ٢ × ١٥

= ١٦ + ٣٠ = ٤٦ ܡܝܬܪ̈ܐ

ܬܘܪ̈ܓܡܐ (١٠ - ٢)

١ - ܡܐ ܫܛܝܚܘܬܐ ܕܦܬܟܐ ܕܐܪܥܐ ܡܠܒܢܬܐ ܕܡܫܘܚܬܐ ܐܘܪܟܗ ٢٠ ܡܝܬܪ̈ܐ ܘܦܬܝܘܬܗ ٥ ܡܝܬܪ̈ܐ؟

٢ - ܟܡܐ ܗܝ ܦܬܝܘܬܐ ܡܠܒܢܐ ܕܡܫܘܚܬܐ ܫܛܝܚܘܬܗ ٣٦٠ ܣܡ٢ ܘܦܬܝܘܬܗ ٣٠ ܣܡ ܡܐ ܐܘܪܟܗ؟

٣ - ܚܩܠܐ ܡܠܒܢܬܐ ܕܡܫܘܚܬܐ ܐܘܪܟܗ ١٨ ܕܣܡ ܘܦܬܝܘܬܗ ١٤ ܕܣܡ، ܚܫܘܒ ܫܛܝܚܘܬܗ ܒܡܝܬܪ̈ܐ ܡܪܒܥ̈ܐ ܡܢ ܕܣܝܡܛܪ̈ܐ ܡܪܒܥ̈ܐ.

٤ - ܬܐܪܐ ܡܠܒܢܬܐ ܕܡܫܘܚܬܐ ܐܘܪܟܗ ٤,٢٥ ܡ - ܘ ٣,٧٥ ܡ ܦܬܝܘܬܗ ܒܡܫܘܚܬܐ ܕܬܐܪܐ ܟܡܐ ܡܢ ܐܪܒܥܘܬܗ ܠܦܬܝܐ ܕܫܘܪܐ ١٥ ܣܡ.

ܐ - ܡܐ ܫܛܝܚܘܬܐ ܕܬܐܪܐ؟

ܒ - ܡܐ ܛܝܡܐ ܕܬܐܪܐ ܐܢ ܛܝܡܐ ܕܡܝܬܪܐ ܡܪܒܥܐ ܗܘܝܐ ٣٧,٥٠٠ ܕܝܢܪ̈ܐ؟

٥ - ܡܐ ܫܛܝܚܘܬܐ ܕܟܠܗ̇ ܡܢ ܦܬܐ ܡܪܒܥܬܐ ܕܡܫܘܚܬܐ ܐܘܪܟܐ ܕܨܠܥܗ ١٢,٥ ܣܡ؟

(١٠ - ٣) ܫܛܝܚܘܬܐ ܕܡܪܒܥܐ ܡܫܘܚܬܐ .

ܡܚܘܝܢܐ ܝܠܗ ܠܨܘܪܬܐ ܠܡܪܒܥܐ ܡܫܘܚܬܐ

ܐܝܟ ܡܪܒܥܐ ܡܠܒܢܐ ܐܘܪܟܗ ܦܬܝܐ.

ܨܘܪܬܐ (١٠ - ٥)

ܗܕܝܐ

ܫܛܝܚܘܬܐ ܕܡܪܒܥܐ ܡܫܘܚܬܐ
= ܐܘܪܟܐ ܕܨܠܥܐ × ܢܦܫܗ

ܕܢܝ ܡܬܠܐ: ܫܛܝܚܘܬܐ ܕܦܐܬܐ ܡܪܒܥܬܐ ܣܘܕܪܐ ܕܝܠܗ ٤ ܣܡ، ܕܡܬܚܙܝܐ (١٠ - ٥)

$$= ٤ \times ٤ = ١٦ \text{ ܣܡ}^{٢}$$

ܘܫܛܝܚܘܬܐ ܕܦܐܬܐ ܡܪܒܥܬܐ ܣܘܕܪܐ ܕܝܠܗ ٢,٥ ܡܝܬܪ̈ܐ

$$= ٢,٥ \times ٢,٥ = ٦,٢٥ \text{ ܡܝܬܪ̈ܐ ܡܪܒܥ̈ܐ}$$

ܘܫܛܝܚܘܬܐ ܕܦܐܬܐ ܡܪܒܥܬܐ ܣܘܕܪܐ ܕܝܠܗ $٥\frac{١}{٢}$ ܕܣܡ

$$= ٥\frac{١}{٢} \times ٥\frac{١}{٢} \text{ ܕܣܡ}^{٢}$$

$$= \frac{١١}{٢} \times \frac{١١}{٢} \text{ ܕܣܡ}^{٢}$$

$$= \frac{١٢١}{٤} = ٣٠\frac{١}{٤} \text{ ܕܣܡ}^{٢}$$

ܘܡܟܝܠ :

ܘܫܛܝܚܘܬܐ ܕܦܐܬܐ ܡܪܒܥܬܐ ܣܘܕܪܐ ܕܝܠܗ ܣ = ܣ × ܣ

ܟܕ ܪܫܡܢ ܠܡܠܬܐ ܕܡܢܝܢܐ ܚܕ ܒܪܫܡܐ: ٢ ܘܩܪܝܢ (ܡܪܒܥܐ ܕ ܣ ܐܘ ܣ ܡܪܒܥܐ) ܘܗܢܐ ܕܗܘ ܡܢܝܢܐ ܡܪܒܥܐ ܕܝܢ ܡܢܝܢܐ ܣܘܕܪܐ ܕܡܢܝܢܐ ܕܗܘ ܡܢܝܢܐ ܡܢܗ.

ܒܗܢܐ :

ܫܛܝܚܘܬܐ ܕܦܐܬܐ ܡܪܒܥܬܐ = ܡܪܒܥܐ ܕܣܘܕܪܐ ܕܝܠܗ

ܗܢܐ ܘܟܢ :

ܫ = ܣ × ܣ = ܣ^{٢}

ܡܬܠܐ (١)

ܕܢܚܫ ܫܛܝܚܘܬܐ ܕܦܐܬܐ ܡܪܒܥܬܐ ܕܡܬܚܙܝܐ ܣܘܕܪܐ ܕܝܠܗ ٤,٨ ܡܝܬܪ̈ܐ.

ܫܪܪܐ :

ܫܛܝܚܘܬܐ ܕܦܐܬܐ ܡܪܒܥܬܐ ܫ = ܣ × ܣ

ܡܛܠ ܗܢܐ ܫܛܝܚܘܬܐ ܕܦܐܬܐ = ٤,٨ × ٤,٨ ܡܝܬܪ̈ܐ ܡܪܒܥ̈ܐ

= ٢٣,٠٤ ܡܝܬܪ̈ܐ ܡܪܒܥ̈ܐ

ܡܬܠܐ (٢)

ܚܩܠܐ ܕܐܪܥܐ ܡܪܒܥܐ ܕܐܘܪܟܐ ܕܚܕܐ ܕܦܐܬܗ ٨٠ ܡܬܪ ، ܘܚܩܠܐ ܐܚܪܢܐ ܡܠܒܢܐ ܕܐܘܪܟܗ ١٠٠ ܡܬܪ ܘܦܬܝܘܬܗ ٥٠ ܡܬܪ. ܐܝܢܐ ܚܩܠܐ ܝܬܝܪ ܒܫܛܝܚܘܬܐ ؟

ܫܪܝܐ :

ܫܛܝܚܘܬܐ ܕܚܩܠܐ ܡܪܒܥܐ ܫ = ܦ × ܦ

= ٨٠ × ٨٠ ܡܬܪ²

= ٦٤٠٠ ܡܬܪ²

ܫܛܝܚܘܬܐ ܕܚܩܠܐ ܡܠܒܢܐ ܫ = ܐ × ܦ

= ١٠٠ × ٥٠

= ٥٠٠٠ ܡܬܪ²

ܘܒܗܝ ٥٠٠٠ < ٦٤٠٠

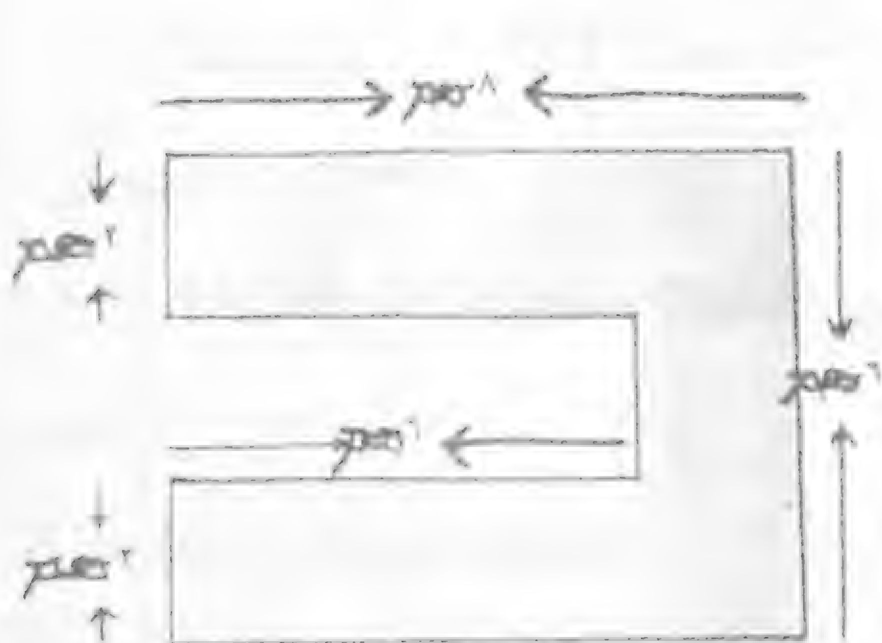
ܒܗܕܐ ܫܛܝܚܘܬܐ ܕܚܩܠܐ ܡܪܒܥܐ ܝܬܝܪ ܡܢ ܫܛܝܚܘܬܐ ܕܚܩܠܐ ܕܐܪܥܐ ܡܠܒܢܐ.

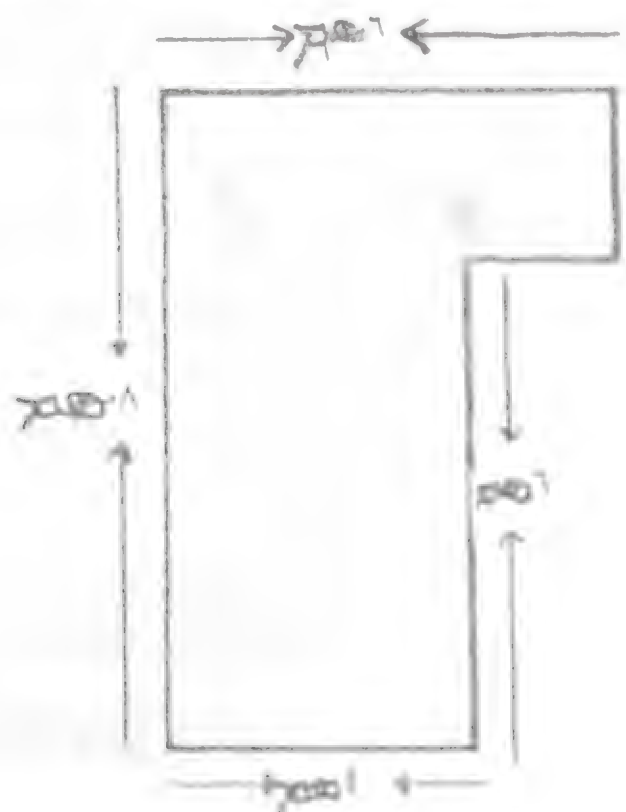
ܕܘܪܫܐ (١٠ – ٣)

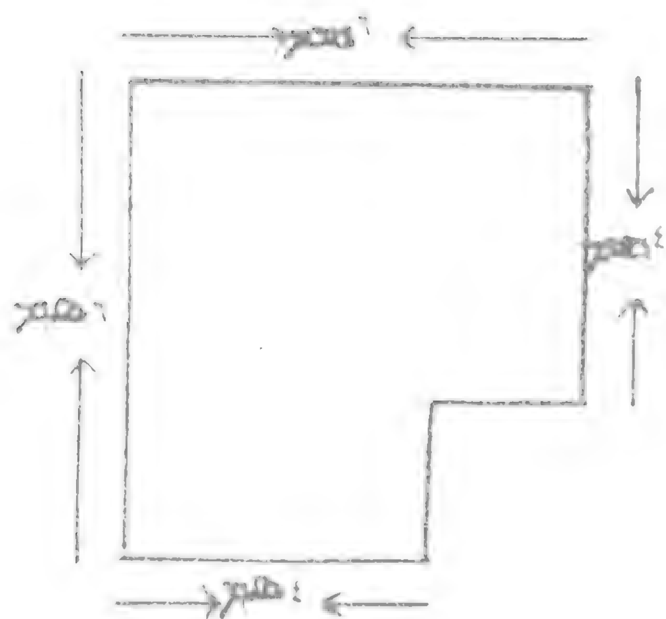
١ ـ ܐܫܟܚ ܫܛܝܚܘܬܐ ܕܚܩܠܐ ܡܪܒܥܐ ܕܐܘܪܟܐ ܕܦܐܬܗ ٦ $\frac{١}{٤}$ ܡܝܬܪ̈ܐ.

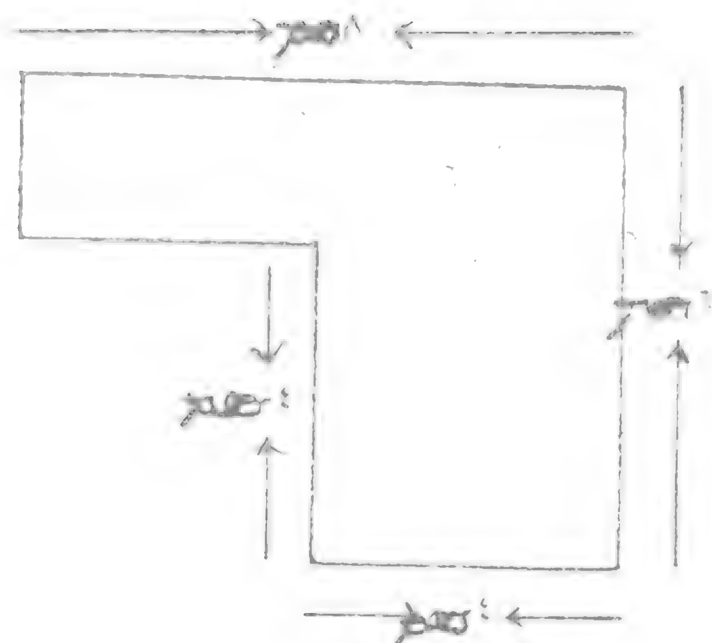
٢ ـ ܚܩܠܐ ܕܐܪܥܐ ܡܠܒܢܐ ܕܐܘܪܟܗ ١٨,٢ ܡܝܬܪ̈ܐ ـ ١٢ ܡܝܬܪ̈ܐ ܦܬܝܘܬܗ ܘܐܝܬ ܓܢܒܗ ܚܩܠܐ ܡܪܒܥܐ ܕܐܘܪܟܐ ܕܦܐܬܗ ١١ ܡܝܬܪ̈ܐ، ܚܫܘܒ ܠܫܛܝܚܘܬܐ ܕܬܪ̈ܝܢ ܚܩܠ̈ܐ.

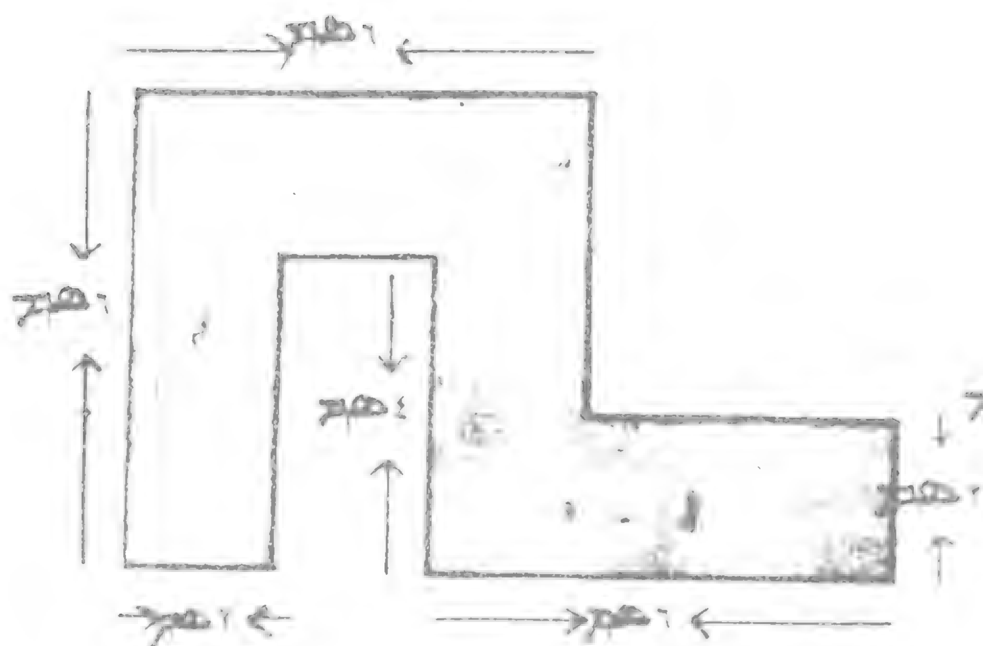
٣ ـ ܚܫܘܒ ܠܫܛܝܚܘܬܐ ܕܟܠ ܚܕܐ ܡܢ ܨܘܪ̈ܬܐ ܕܠܬܚܬ :

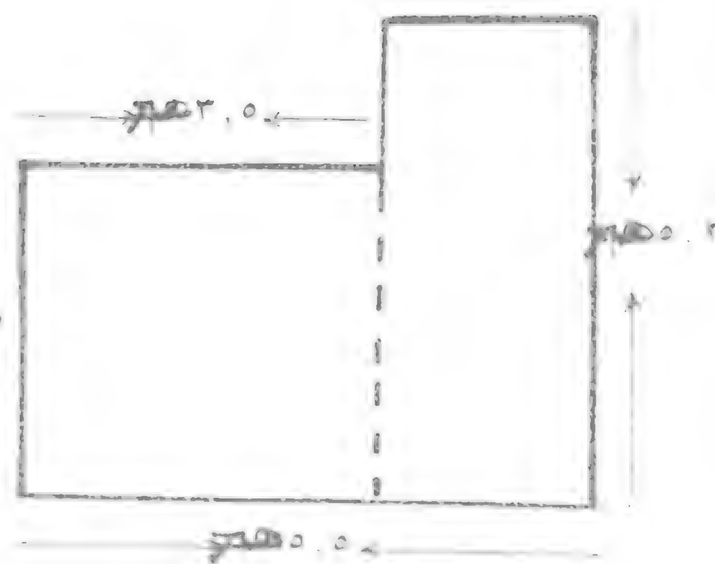












٤ - ܐܢܐ ܢܫܢܐ ܒܫܠܝܡܘܬܐ: ܚܩܠܐ ܕܐܪܒܥܐ ܡܪܒܥܐ ܕܦܫܝܛܘܬܐ ܦܬܝܐ ܕܐܘܪܟܗ ٣٠
ܡܝܬܪ̈ܐ ܐܘ ܚܩܠܐ ܡܫܒܚܐ ܕܦܫܝܛܘܬܐ ܦܬܝܐ ܘܐܘܪܟܗ: ٣٥ ܡܝܬܪ̈ܐ، ٢٠ ܡܝܬܪ̈ܐ؟

٥ - ܚܩܠܐ ܕܐܪܒܥܐ ܡܫܒܚܐ ܕܦܫܝܛܘܬܐ ܦܬܝܐ ܕܐܘܪܟܗ ٧٥ ܡܝܬܪ̈ܐ، ܘܦܬܝܘܬܗ ٣٠ ܡܝܬܪ̈ܐ. ܟܡܐ
ܚܩܠܐ ܡܫܒܚܐ ܕܦܬܝܘܬܗ ܠܚܩܠܐ ܡܪܒܥܐ ܦܬܝܐ ܕܟܠ ܐܠܥܐ ܡܢܗ ١٥ ܡܝܬܪ̈ܐ. ܟܡܐ
ܚܩܠܐ ܕܐܝܬ ܚܩܠܐ؟

٦ - ܗܢܐ ܚܩܠܐ ܡܢ ܐܪܒܥܐ ܒܥܝܢܐ ܒܫܠܝܡܘܬܐ. ܡܪܒܥܐ ܡܪܒܥܐ ܕܦܫܝܛܘܬܐ ܦܬܝܐ ܕܐܘܪܟܗ
٦٠ ܡܛܪ، ܘܦܬܝܘܬܐ ܕܦܫܝܛܘܬܐ ܦܬܝܘܬܗ ٤٠ ܡܛܪ ܕܐܝܬ ܠܐܘܪܟܗ؟

١٠ - ٤ ܫܸܪܫܵܐ ܪܒܘܼܥܵܝܵܐ ܠܡܸܢܝܵܢܹܐ :

ܗܵܝܟ ܕܫܛܝܼܚܘܼܬܵܐ ܕܦܵܐܬܵܐ ܡܪܲܒܲܥܬܵܐ = ܐܘܼܪܟܵܐ ܕܨܹܠܥܵܐ X ܐܘܼܪܟܵܐ ܕܨܹܠܥܵܐ

= ܡܪܲܒܥܵܐ ܕܐܘܼܪܟܵܐ ܕܨܹܠܥܵܐ

ܡܵܐ ܡܬܘܼܡܵܐ : ܦܵܐܬܵܐ ܡܪܲܒܲܥܬܵܐ ܕܐܘܼܪܟܵܐ ܕܨܹܠܥܵܗ̇ ٧ ܣܡ.

ܫܛܝܼܚܘܼܬܵܗ̇ = $٧ \times ٧ = ٧^{٢} = ٤٩$ ܣܡ²

ܘܐܸܢ ܐܵܡܪܲܢ : ܐܸܢ ܝܕܝܼܥܵܠܘܼܟ ܫܛܝܼܚܘܼܬܵܐ ܕܦܵܐܬܵܐ ܡܪܲܒܲܥܬܵܐ ܕܐܝܼܟ ܡܫܟܚܝܬ ܐܘܼܪܟܵܐ ܕܨܹܠܥܵܗ̇ ؟

ܡܵܐ ܡܬܘܼܡܵܐ : ܦܵܐܬܵܐ ܡܪܲܒܲܥܬܵܐ ܕܫܛܝܼܚܘܼܬܵܗ̇ ٢٥ ܣܢܬܝ̈ ܡܪܲܒܥܹܐ ،

ܗܘܝܵܐ ܐܘܼܪܟܵܐ ܕܨܹܠܥܵܗ̇ ܡܸܢܝܵܢܵܐ ܡܪܲܒܥܹܗ ܡܸܢܝܵܢܵܐ ٢٥

ܗܵܕܵܐ ܥܒܸܕ : ܐܘܼܪܟܵܐ ܕܨܹܠܥܵܐ = ٥ ܣܢܬܝ̈ ܒܘܼܢ : $٥ \times ٥ = ٥^{٢} = ٢٥$

ܘܕܥܝܼܢ ܕܡܸܢܝܵܢܵܐ ܡܸܢܝܵܢܵܐ ٢٥ ܡܪܲܒܥܵܐ ܕܡܸܢܝܵܢܵܐ ٥

ܐܵܦ ܡܸܢܝܵܢܵܐ ٥ ܫܸܪܫܵܐ ܪܒܘܼܥܵܝܵܐ ܕܡܸܢܝܵܢܵܐ ٢٥ ،

ܘܟܵܬܒܝܼܚ ܠܗܵܕܵܐ ܒܐܘܼܪܚܵܐ $\sqrt{٢٥} = ٥$

ܘܪܸܫܡܵܐ $\sqrt{}$ ܩܪܹܐ ܫܸܪܫܵܐ ܪܒܘܼܥܵܝܵܐ

ܘܠܗܵܕܵܐ : $\sqrt{٢٥} = ٥$

ܘܩܪܹܐ : ܫܸܪܫܵܐ ܪܒܘܼܥܵܝܵܐ ܠܡܸܢܝܵܢܵܐ ٢٥ ܗ̱ܘܵܐ ٥

ܘܐ݇ܝܢܘܿ ܗ̱ܘܵܐ : ܐܘܼܪܟܵܐ ܕܨܹܠܥܵܐ ܕܦܵܐܬܵܐ ܡܪܲܒܲܥܬܵܐ ܫܛܝܼܚܘܼܬܵܗ̇ ٨١ ܣܡ²

ܗ̱ܘܵܐ ٩ ܣܡ ܒܘܼܢ ، $٩ \times ٩ = ٩^{٢} = ٨١$

ܗܵܕܵܐ ܥܒܸܕ $\sqrt{٨١} = ٩$

ܘܠܗܵܕܵܐ :

ܫܸܪܫܵܐ ܪܒܘܼܥܵܝܵܐ ܠܟܠ-ܡܸܢܝܵܢܵܐ ܐ݇ܝܠܹܗ ܡܸܢܝܵܢܵܐ ܡܪܲܒܥܹܗ ܗ̱ܘܵܐ ܡܸܢܝܵܢܵܐ ܗܵܘ.

ܘܡܛܠ ܕܗܳܕܐ :

$\sqrt{١٦} = ٤$ ܒܪܡ : $٤ \times ٤ = ٤^{٢} = ١٦$

$\sqrt{٦٤} = ٨$ ܒܪܡ : $٨ \times ٨ = ٨^{٢} = ٦٤$

$\sqrt{١٠٠} = ١٠$ ܒܪܡ : $١٠ \times ١٠ = ١٠^{٢} = ١٠٠$

$\sqrt{١} = ١$ ܒܪܡ : $١ \times ١ = ١^{٢} = ١$

$\sqrt{٤٠٠} = ٢٠$ ܒܪܡ : $٢٠ \times ٢٠ = ٢٠^{٢} = ٤٠٠$

ܡܚܫܒܢܘܬܐ :

ܐܢܟܐ ܕܡܫܘܚܬܐ ܕܦܐܬܐ ܡܪܒܥܬܐ ܕܥܩܪܐ ܕܝܠܗ̈ ܠ ܝܠܗ

$ܣ = ܠ \times ܠ = ܠ^{٢}$

ܥܩܪܐ ܕܝܠܗ̈ ܕܦܐܬܐ ܡܪܒܥܬܐ ܕܡܫܘܚܬܗ ܣ ܝܠܗ

$= ܠ = \sqrt{ܣ}$

ܡܬܠܐ (١)

ܦܬܝܐ ܡܢ ܩܕܡ ܡܪܒܥܐ ܕܦܐܬܐ ܡܫܘܚܬܗ ٨١ ܣܡ² ܚܫܘܒ ܠܥܩܪܐ ܕܝܠܗ.

ܚܠܐ :

ܟܕ ܦܬܝܐ ܡܪܒܥܐ ܕܦܐܬܐ ܝܠܗ ܘܡܫܘܚܬܗ ٨١ ܣܡ²

∴ ܥܩܪܐ ܕܝܠܗ $= \sqrt{٨١} = ٩$ ܣܡ

ܡܬܠܐ (٢)

ܦܬܝܐ ܕܐܪܥܝܐ ܦܬܝܐ ܕܕܪܬܐ ܡܪܒܥܬܐ ܕܦܐܬܐ ܥܩܪܗ ١٦ ܡܬܪ̈ܐ، ܘܦܬܝܘܬܗ
٤ ܡܬܪ̈ܐ ܒܦܬܝܐ ܐܚܪܝܐ ܡܪܒܥܐ ܕܦܐܬܐ ܗܘܐ ܠܗ ܒܡܫܘܚܬܐ ܚܕܐ ܥܩܪܐ ܕܦܬܝܐ
ܕܕܪܬܐ ܡܪܒܥܬܐ؟

ܦܬܪܐ :

ܦܬܝܐ ܕܐܪܥܐ ܡܪܒܥܬܐ ܡܫܘܚܬܐ ܕܐܘܪܟܐ،

ܫܛܝܚܘܬܗ ܗ = ܐ × ܦ

= ١٦ × ٤

= ٦٤ ܡܝܛܪܐ ܡܪܒܥܐ

ܘܐܢ ܫܛܝܚܘܬܐ ܡܪܒܥܬܐ ܫܘܝܐ ܠܗ ܠܫܛܝܚܘܬܐ،

ܒܗܘܢܐ : ܫܛܝܚܘܬܐ ܕܡܪܒܥܬܐ ܡܪܒܥܬܐ = ٦٤ ܡܝܛܪܐ ܡܪܒܥܐ

ܘܒܗܕܐ : ܢܘܦܐ ܕܐܝܠܗ ܕܡܪܒܥܬܐ ܡܪܒܥܬܐ = √٦٤

= ٨ ܡܝܛܪܐ

ܡܫܟܚܬܐ ܕܫܪܫܐ ܬܪܝܢܝܐ ܠܡܢܝܢܐ ܒܥܕܢܐ ܒܡܣܟܢܐ ܕܦܪܫܘܬܐ ܒܡܢܝܢܐ:

ܐܘܟ ܡܬܚܙܝܐ ܕܡܫܟܚܬܐ ܕܡܢܝܢܐ ܠܡܦܪܫܗ ܒܦܠܓܐ ܘܡܫܟܚܬܐ ܕܫܪܫܗ ܬܪܝܢܝܐ ܒܗܠ ܗܐ ܕܐܬܐ :

ܡܫܟܚܬܐ ܕܡܢܝܢܐ ٢٥ ܗܘ ܡܦܪܫܝܢ ܠܡܦܪܫܗ ܒܦܠܓܐ ܩܕܡܝܐ :

٢٥	٥
٥	٥
١	

$$25 = 5 \times 5 = 5^{2}$$

$$\therefore \sqrt{25} = 5$$

ܡܫܟܚܬܐ ܕܡܢܝܢܐ ٣٦ ܗܘ ܡܦܪܫܝܢ ܠܡܦܪܫܗ ܒܦܠܓܐ ܩܕܡܝܐ :

٣٦	٢
١٨	٢
٩	٣
٣	٣
١	

$$36 = 2 \times 2 \times 3 \times 3$$

$$= (2 \times 3) \times (2 \times 3) \text{ (ܠܡܢܐ ؟)}$$

$$= 6 \times 6 = 6^{2}$$

$$\therefore \sqrt{36} = 6$$

ܒܦܘܪܫܢܐ ܕܡܢܝܢܐ ١٠٠ ܗܘ ܦܘܫܩܐ ܠܦܠܚܘܬܗ ܩܕܡܝ̈ܐ ܒܗܕܟܐ :

١٠٠	٢
٥٠	٢
٢٥	٥
٥	٥
١	

$$١٠٠ = ٢ \times ٢ \times ٥ \times ٥$$

$$= (٢ \times ٥) \times (٢ \times ٥)$$ ܠܐ

$$= ١٠ \times ١٠ = ١٠^{٢}$$

$$\therefore \sqrt{١٠٠} = ١٠$$

ܡܢ ܦܘܫܩܐ ܕܠܥܠ ܚܙܝܐ ܗܘܐ ܕܗܐ ܚܙܝܬܐ ܕܫܪܫܐ ܡܪܒܥܐ ܠܡܢܝܢܐ ܡܨܝܚ ܠܡܫܟܚܢܐ
ܕܐܟܝ :

ܐ - ܦܪܘܫ ܠܡܢܝܢܐ ܠܦܠܚܘܬܗ ܩܕܡܝ̈ܐ.

ܒ - ܟܢܘܫ ܙܘܓܐ ܡܢ ܟܠ ܙܘܓܐ ܕܦܠܚܘܬܐ ܕܡܝܐ.

ܓ - ܡܟܦܠ ܠܚܕܐ ܕܦܘܠܚܐ ܕܦܠܚܘܬܐ ܕܟܢܝܫܐ ܒ (ܒ) ܒܚܕܐ ܠܚܡܫܐ ܡܪܒܥܐ ܡܫܟܚܬܐ.

ܦܘܫܩܐ (١)

ܐܫܟܚ $\sqrt{٤٩}$ ܒܦܘܪܫܢܐ

ܫܪܝܐ :

ܦܪܘܫ ܠܡܢܝܢܐ ٤٩ ܠܦܠܚܘܬܗ ܩܕܡܝ̈ܐ ܒܗܕܟܐ :

٤٩	٧
٧	٧
١	

$$٤٩ = ٧ \times ٧ = ٧^{٢}$$

$$\therefore \sqrt{٤٩} = ٧$$

ܦܘܫܩܐ (٢)

ܐܫܟܚ $\sqrt{٤٨٤}$ ܒܦܘܪܫܢܐ

ܫܪܝܐ :

ܦܪܘܫ ܠܡܢܝܢܐ ٤٨٤ ܠܦܠܚܘܬܗ ܩܕܡܝ̈ܐ ܒܗܕܟܐ :

٤٨٤	٢
٢٤٢	٢
١٢١	١١
١١	١١
١	

$$٤٨٤ = ٢ \times ٢ \times ١١ \times ١١$$

$$= (٢ \times ١١) \times (٢ \times ١١)$$ ܠܦܘܬ

$$= ٢٢ \times ٢٢ = ٢٢^٢$$

$$\therefore \sqrt{٤٨٤} = ٢٢$$

ܡܬܠܐ (٣)

ܐܫܟܚ $\sqrt{٢٢٥}$ ܒܡܫܪܐ

ܫܪܝܐ :

ܒܦܪܫ ܠܡܢܝܢܐ ٢٢٥ ܠܦܠܓܘܬܗ ܩܕܡܝܐ ܒܗܘܝ :

٢٢٥	٣
٧٥	٣
٢٥	٥
٥	٥
١	

$$٢٢٥ = ٣ \times ٣ \times ٥ \times ٥$$

$$= (٣ \times ٥) \times (٣ \times ٥)$$

$$= ١٥ \times ١٥ = ١٥^٢$$

$$\therefore \sqrt{٢٢٥} = ١٥$$

ܬܡܪܝܢܐ (١٠ - ٤٤)

١ - ܐܫܟܚ ܠܫܪܫܐ ܡܪܒܥܐ ܠܟܠ ܚܕ ܡܢ ܡܢܝܢܐ ܕܐܬܝ ܒܬܚܘܬܐ :

١٠٠ ، ١٢١ ، ٤٠٠ ، ١٩٦ ،

٥٧٦ ، ٦٢٥ ، ٩٠٠ ، ١٦٩ ،

٣٦٠٠ ، ٢٥٠٠ ، ٦٤٠٠ ، ٤٩٠٠ ،

٢ - ܦܬܝܐ ܕܐܪܥܐ ܡܪܒܥܬܐ ܕܫܘܚܬܗ ܡܫܘܚܬܗ ٣٢٤ ܡܝܛܪܐ ܡܪܒܥܐ، ܐܫܟܚ ܐܘܪܟܐ ܕܐܠܥܗ.

٣ - ܒܥܠܗ ܡܘܫܠܡܐ ܦܬܝܐ ܕܐܪܥܐ ܡܓܒܝܐ ܕܫܘܚܬܐ ܐܘܪܟܗ ١٥ ܡܝܛܪܐ ܘܦܬܝܘܬܗ ٤ ܡܝܛܪܐ ܒܦܬܝܐ ܐܚܪܢܐ ܡܪܒܥܬܐ ܕܫܘܚܬܐ ܚܕܐ ܥܡ ܡܫܘܚܬܐ. ܡܐ ܐܘܪܟܐ ܕܐܠܥܐ ܕܦܬܝܐ ܕܐܪܥܐ ܡܪܒܥܬܐ؟

٤ - ܚܩܠܐ ܡܪܒܥܬܐ ܒܥܠܗ ܒܡܐܬܐ ܒܢܘܫܐ ܡܪܒܥܐ ܘܫܒܩܠܗ ܗܘ ܕܪܗ ١٠٠ ܢܘܫܐ، ܐܢ ܐܘܪܟܐ ܕܟܠ ܐܠܥܐ ܕܢܘܫܐ ܢܘܗܐ ٣٠ ܣܡ، ܡܐ ܝܠܗ ܐܘܪܟܐ ܕܐܠܥܐ ܕܕܪܬܐ ܚܩܠܐ؟

٥ - ܡܪܒܥܐ ܕܐܪܥܐ ܡܪܒܥܬܐ ܫܛܝܚܘܬܗ ٢٥٦ ܡܝܛܪܐ ܡܪܒܥܐ، ܦܫܠܗ ܒܣܝܓܐ ܒܡܪܒܥܐ
ܐܝܟܢܐ ܡܛܝܒܐ ܦܛܝܠܘܬܗ ܫܘܪܐ ܐܘܪܟܐ ܕܡܪܒܥܐ ܕܐܪܥܐ ܡܪܒܥܬܐ ܘܐܘܪܟܗ ܫܘܪܐ ܗܠܟܬܐ ܠܟܠ
ܕܪܥܐ ܐܘܪܟܐ ܡܢ ܫܛܝܚܘܬܐ ܕܡܪܒܥܐ ܚܕܬܐ؟
٦ - ܐܪܥܐ ܡܪܒܥܬܐ ܫܛܝܚܘܬܗ ٢٨٩ ܡܝܛܪܐ ܡܪܒܥܐ ܦܫܠܗ ܒܣܝܓܬܐ ܒܡܪܒܥܐ ܕܐܪܥܐ
ܐܝܟܢܐ ܡܛܝܒܬܐ ܒܘܢܐ ܠܗ ܒܫܛܝܚܘܬܐ܆ ܘܦܛܝܠܘܬܗ ٥ ܘ٨ ܡܝܛܪܐ، ܟܡܐ ܡܝܛܪܐ ܐܘܪܟܗ؟
٧ - ܐܫܟܚ ܠܐܘܪܟܐ ܕܦܐܬܐ ܚܕܐ ܠܡܪܒܥܬܐ ܕܒܘܪܐ ܣܓܘܠܐ ܕܐܝܟܐ ܡܪܒܥܬܐ ܫܛܝܚܘܬܗ
٩٠٠ ܡܝܛܪܐ ܡܪܒܥܐ.

ܟܘܡܝܐ ܡܩܪܒܢܝܐ ܠܫܪܫܐ ܡܪܒܥܐ

ܐܢ ܗܘܐ ܠܢ ܡܢܝܢܐ ܡܪܒܥܐ ܐܝܟ : ٩، ١٦، ٢٥، ١٠٠

ܚܙܝܢ : $\sqrt{٩} = ٣$ ، $\sqrt{١٦} = ٤$ ، $\sqrt{٢٥} = ٥$ ، $\sqrt{١٠٠} = ١٠$

ܗܢܐ ܡܥܢܐ ܕܫܪܫܐ ܡܪܒܥܐ ܠܟܠ ܚܕ ܡܢ ܗܠܝܢ ܡܢܝܢܐ ܗܘ ܡܢܝܢܐ ܫܠܡܐ،

ܐܢ ܐܢ ܗܘܐ ܠܢ ܡܢܝܢܐ ܐܝܟ : ٥ ، ١١ ، ٣٥ ، ٧١

ܚܙܝܢ ܗܘܝܢ ܕܠܐ ܐܝܬ ܡܢܝܢܐ ܫܠܡܐ ܕܗܘܐ ܫܪܫܐ ܡܪܒܥܐ ܠܟܠ ܚܕ ܡܢ ܗܠܝܢ ܡܢܝܢܐ،
ܡܛܠ ܡܢܝܢܐ ٣٥ ܠܐ ܫܘܝܐ ܠܐ ܠܡܪܒܥܐ ܕܡܢܝܢܐ ܫܠܡܐ ܐܝܟ ܡܕܡ
ܒܣܘܦܐ ܕܗܘ ܡܪܒܥܐ ܕܗܘ ٣٥ (ܗܢܐ ܡܥܢܐ ܡܪܒܥܘܗܝ = ܡܢܝܢܐ ٣٥)

ܘܐܝܟ ܚܙܝܢ ܟܡܐ ܕܐܬܐ ܫܩܠ ܟܘܡܝܐ ܡܩܪܒܢܝܐ ܠܫܪܫܐ ܡܪܒܥܐ:

ܡܬܠܐ : ܠܡܫܟܚܘܬܐ ܕܟܘܡܝܐ ܡܩܪܒܢܝܐ ܠܟܘܡܝܐ $\sqrt{١١}$

ܢܕܥܝܢ ܕ : $٩ < ١١ < ١٦$

ܒܣܘܦ ܕܪܥܐ ܒܗܘܝܐ : $٣^٢ < ١١ < ٤^٢$

ܘܐ : $٣ < \sqrt{١١} < ٤$

ܗܢܐ ܡܥܢܐ $\sqrt{١١}$ ܪܒܐ ܡܢ ٣ ܘܒܨܝܪ ܡܢ ٤ ܡܩܪܒܐ ܠـ٣ ܡܢ ܠـ٤
ܒܗܝ ܠܐ ܡܩܪܒܐ ܠـ٩ ܡܢܗ ܠـ١٦

ܗܢܘ ܡܥܢܐ : ٣,٤ ، ٣,٣ ، ٣,٢ ، ٣,١ ܒܟܘܡܝܐ ܡܩܪܒܢܝܐ ܠـ $\sqrt{١١}$

ܡܬܠܐ (١)

ܚܫܘܒ $\sqrt{٣٤}$

ܫܪܝܐ :

ܒܨܝܢ ܗܕܐ ܡܪ̈ܒܥܐ ܕܡ ܡܢܝܢܐ ܕܡܫܬܟܚܝ ܒܡܨܥܬܗܘܢ ܠܡܢܝܢܐ ٣٤
ܕܡ ܩܘܡ ܕܝܠܗ ܗܕܐ ܡܪ̈ܒܥܐ ܒܝܢ ٢٥ ، ٣٦

ܒܠܝܐ ܕ :   : $٣٦ > ٣٤ > ٢٥$

ܐܘ :   : $٦^٢ > ٣٤ > ٥^٢$

ܒܨܘܪܬܐ :   : $٦ > \sqrt{٣٤} > ٥$

ܗܢܐ ܘܕܝܢ $\sqrt{٣٤}$ ܢܦܠ ܒܝܢ ٥ ، ٦ ܘܒܠܝܗ ܕܡ ܡܩܪܒܐ ܠ ٦ ܡܢܗ ܠ ٥ (ܠܡܢ ؟)

ܘܠܒܪܬܐ ܒܨܘܪܬܐ : ٥,٦ ، ٥,٧ ، ٥,٨ ، ٥,٩ ܒܩܘܪܒܐ ܡܩܪ̈ܒܬܐ ܠ $\sqrt{٣٤}$

ܡܬܠܐ (٢)

ܚܫܘܒ $\sqrt{١٠٧}$

ܫܪܝܐ :

$١٢١ > ١٠٧ > ١٠٠$

ܐܘ :   : $١١^٢ > ١٠٧ > ١٠^٢$

ܐܘ :   : $١١ > \sqrt{١٠٧} > ١٠$

ܗܢܐ ܘܕܝܢ : $\sqrt{١٠٧}$ ܡܫܬܟܚܐ ܒܝܢ ١٠ ، ١١ ܘܒܠܝܗ ܕܡ ܡܩܪܒܐ ܠ ١٠ ܡܢܗ ܠ ١١ (ܠܡܢ
∴ ١٠,٤ ، ١٠,٣ ، ١٠,٢ ، ١٠,١ ܒܩܘܪܒܐ ܡܩܪ̈ܒܬܐ ܠ $\sqrt{١٠٧}$

ܕܘܪ̈ܫܐ (١ - ٤ - ب)

١ - ܚܫܘܒ ܠܫܪܫܐ ܡܪܒܥܐ ܠܟܠ ܚܕ ܡܢ ܕܝܠܗ ܡܢܝ̈ܢܐ ܕܠܬܚܬ :

٢٣ ، ٥١ ، ١٤٠

٢٣٥ ، ٣٩١ ، ٨٩٥

٢ - ܚܫܘܒ ܐܘܪܟܐ ܕܦܬܝܐ ܕܐܪܥܐ ܕܐܝܬܝܗ ܡܪܒܥܬܐ ܫܛܝܚܘܬܗ ٥٧٠ ܡܝܛܪ̈ܐ ܡܪ̈ܒܥܐ.

٣ - ܐܢ ܦܬܝܐ ܕܐܪܥܐ ܐܘܪܟܗ ٨٠ ܡܝܛܪ̈ܐ ܠܡܪܒܥܬܐ ܕܐܝܬܝܗ ܡܪܒܥܬܐ ܫܛܝܚܘܬܗ ٤٢١ ܡܝܛܪ̈ܐ ܡܪ̈ܒܥܐ، ܘܟܡܐ ؟

(١٠ - ٥) ܫܛܝܚܘܬܐ ܕܦܐܬܐ ܡܬܠܬܐ :

ܥܒܕܐ (١)

ܟܬܘܒ ܦܬܝܐ ܕܡܪܒܥܬܐ ܕܐܝܬܝܗ ܡܪܒܥܬܐ.

ܐܘܪܟܐ ܕܡܪܒܥܬܐ = ܣܡ، ܦܬܝܘܬܐ ܕܡܪܒܥܬܐ = ܣܡ

ܫܛܝܚܘܬܐ ܕܦܐܬܐ ܡܪܒܥܬܐ = × = ܣܡ^2

ܦܣܘܩ ܗܕܐ ܦܐܬܐ ܠܬܪܬܝܢ ܦܐܬ̈ܐ ܐܝܟ ܕܒܨܘܪܬܐ (١٠ - ٦)

ܡܢܐ ܡܚܙܐ ܐܢܬ ܕܦܣܩܬ ܗܕܐ ܦܐܬܐ ܠܬܪܬܝܢ ܦܐܬ̈ܐ ܡܬܠܬ̈ܐ (ܡܘܪܒܥܐ)

ܡܢܘ ܩܛܪܐ ܠܡܪܒܥܬܐ ؟ ܘܡܢܘ ܩܛܪܐ ܠܡܬܠܬ̈ܐ؟

ܫܐܠ ܠܡܠܦܢܐ ܕܢܚܘܐ ܠܟ ܫܛܝܚܘܬܐ ܕܦܐܬܐ ܡܪܒܥܬܐ، ܘܫܛܝܚܘܬܐ ܕܟܠ ܡܬܠܬܐ ܕܐܝܬܝܗܘܢ، ܡܢܗ ܫܛܝܚܘܬܐ ܡܪܒܥܬܐ ܠܗܕܐ ܦܐܬ̈ܐ.

ܢܚܙܐ ܗܕܐ ܦܐܬ̈ܐ ܥܠ ܚܕܐ ܚܕܐ ܦܐܬܐ ܡܬܠܬܐ ܕܫܘܝܐ ܫܛܝܚܘܬܗ.

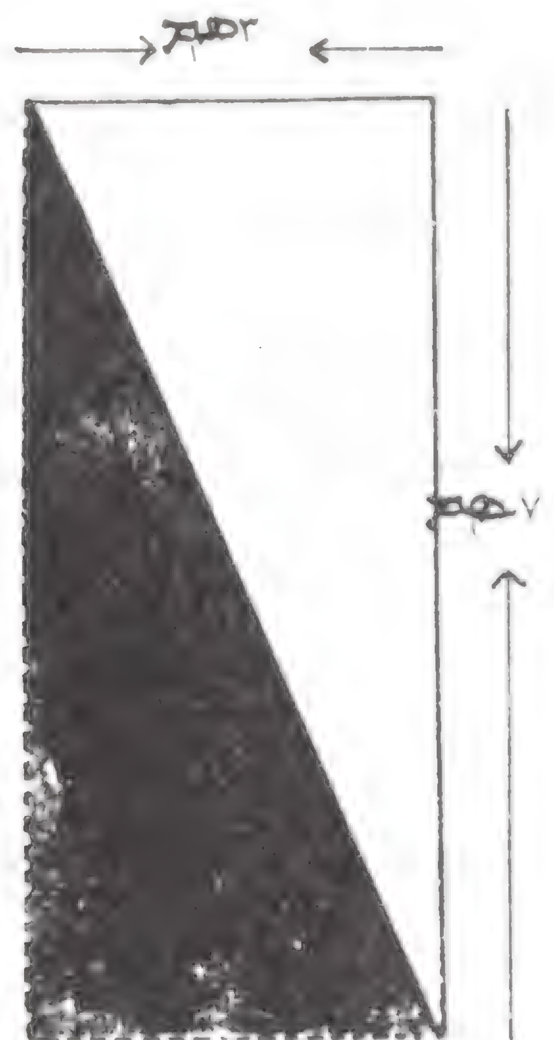
(١٠ - ٦) ܨܘܪܬܐ

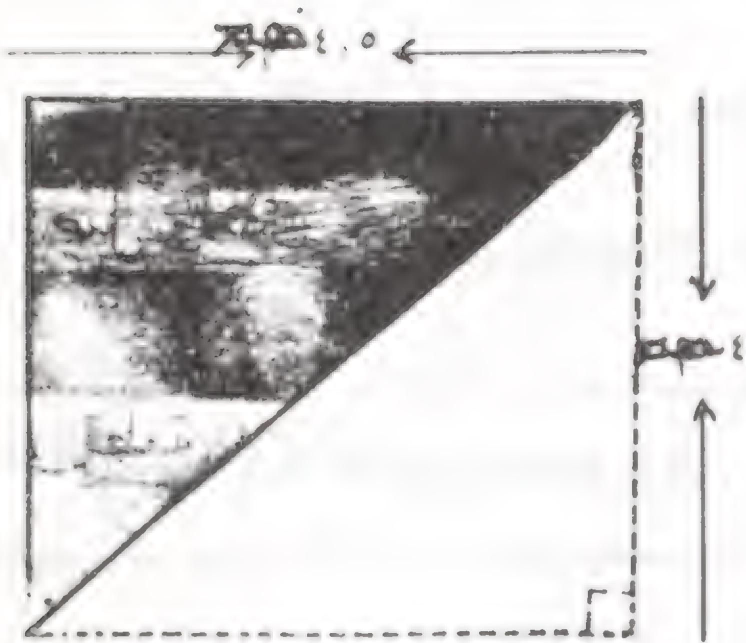
ܚܫܘܒ ܫܛܝܚܘܬܐ ܕܟܠ ܦܣܝܣܬܐ ܡܩܛܥܬܐ ܒܬܪܬܝܢ. ܡܐ ܚܙܝܬ ܗܘܐ ؟ (ܡܚܠܝܦ ܢܦܫܟ)
ܡܢ ܟܡܐ ܫܛܝܚܘܬܐ ܕܦܣܝܣܬܐ ܡܬܠܬܐ ܠܟܘܢ ܫܛܝܚܘܬܐ ܕܦܣܝܣܬܐ ܡܪܒܥܬܐ؟

ܫܛܝܚܘܬܐ ܕܦܣܝܣܬܐ ܡܬܠܬܐ = ☐ ܫܛܝܚܘܬܐ ܕܦܣܝܣܬܐ ܡܪܒܥܬܐ

ܚܘܕܪܐ (٢)

ܐܫܟܚ ܫܛܝܚܘܬܐ ܕܟܠ ܦܣܝܣܬܐ ܡܬܠܬܐ ܐܝܟ ܒܠܘܩܒܠ :



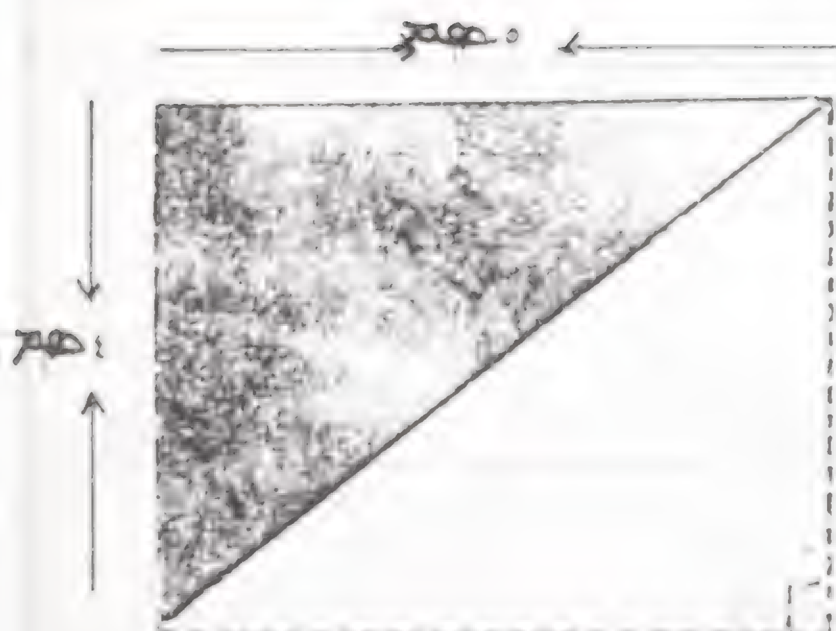


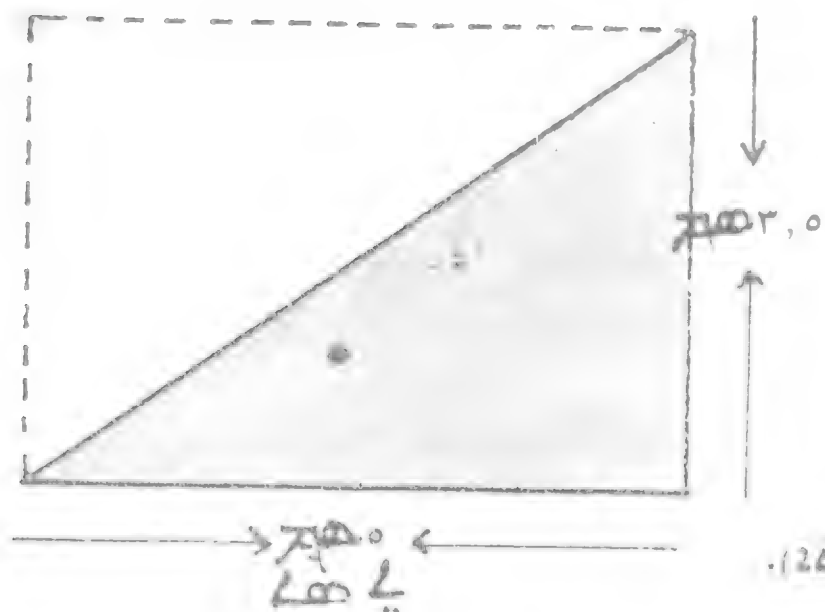
ܫܛܝܚܘܬܐ ܕܦܣܝܣܬܐ ܡܪܒܥܬܐ

$= ٧ \times ٣ = ٢١$ ܣܡ²

ܫܛܝܚܘܬܐ ܕܦܣܝܣܬܐ ܕܡܬܠܬܐ =

$\frac{١}{٢} \times ٢١ = ١٠\frac{١}{٢}$ ܣܡ²





ܒܨܘܪܬܐ (١٠ - ٧) ܦܐܬܐ ܡܬܠܬܐ
ܐܝܬܠܗ̇ ܡܬܠܬܐ ܕܡܝܟ ܙܘܝܬܐ
ܚܕ ܓܢܒܐ ܕܡܬܠܬܐ ܦܝܫ ܡܕܪܐ
(ܫܬܐ ܕܡܬܠܬܐ).
ܒ݂. ܚܡܝܠ ܠܗ ܚܕ ܓܢܒܐ ܕܡܝܟ [illegible] ܫܬܐ.
ܐܘܪܟܐ ܕܓܢܒܐ ܕܡܝܟ [illegible] ܦܝܫ ܡܕܪܐ (ܪܘܡܐ ܕܡܬܠܬܐ).

ܨܘܪܬܐ (١٠ - ٧)

ܒܦܐܬܐ ܡܬܠܬܐ ܒܨܘܪܬܐ (١٠ - ٧)

ܐܘܪܟܐ ܕܫܬܐ = ܫ = ٥ ܣܡ

ܪܘܡܐ = ܪ = ٣,٥ ܣܡ

ܚܘܫܒܢܐ ܕܦܐܬܐ [illegible] = ܐܘܪܟܐ ܕܫܬܐ × ܪܘܡܐ

ܚܘܫܒܢܐ ܕܦܐܬܐ ܡܬܠܬܐ = $\frac{١}{٢}$ (ܐܘܪܟܐ ܕܫܬܐ × ܪܘܡܐ)

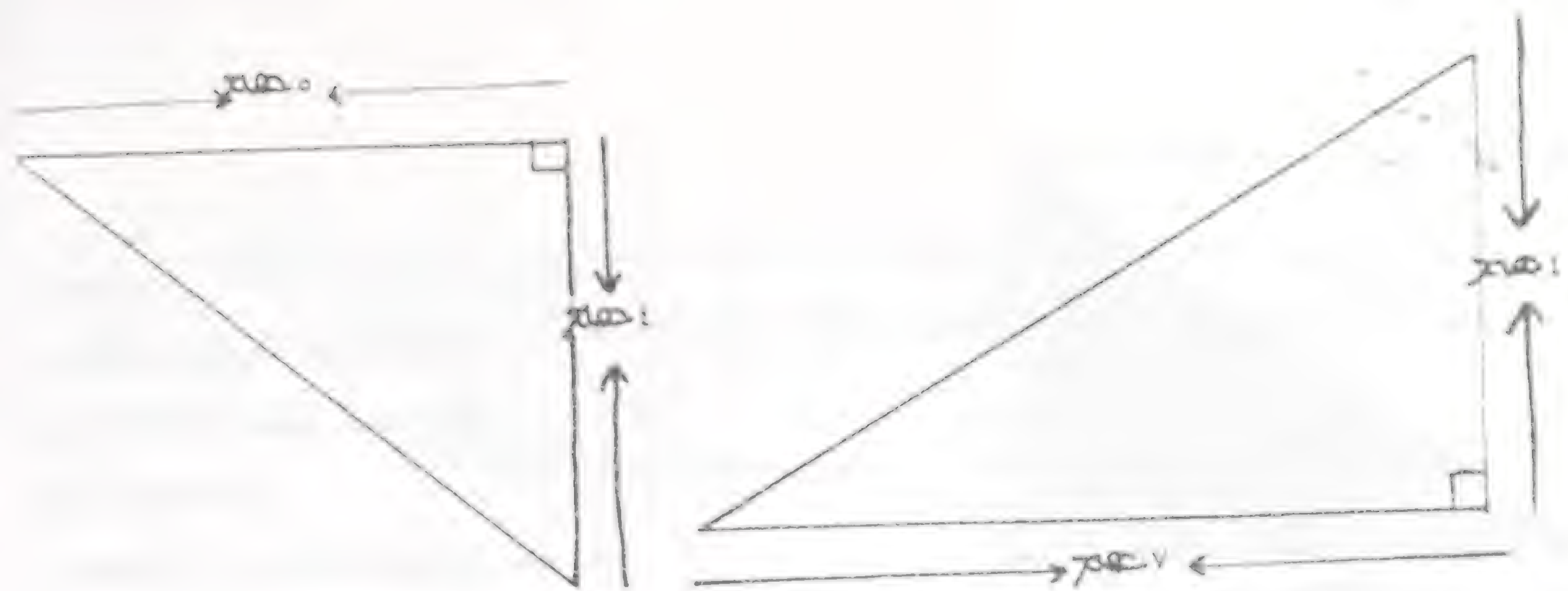
ܦ = $\frac{١}{٢}$ × (ܫ × ܪ)

= $\frac{١}{٢}$ × (٥ × ٣,٥) ܣܡ²

= $\frac{١}{٢}$ × ١٧,٥ ܣܡ²

= ٨,٧٥ ܣܡ²

ܗܫܐ ܚܘܫܒܢܐ ܕܟܠ ܦܐܬܐ ܡܬܠܬܐ ܒܟܠ ܕܪܓܐ ܐܝܟ ܗܕܐ:

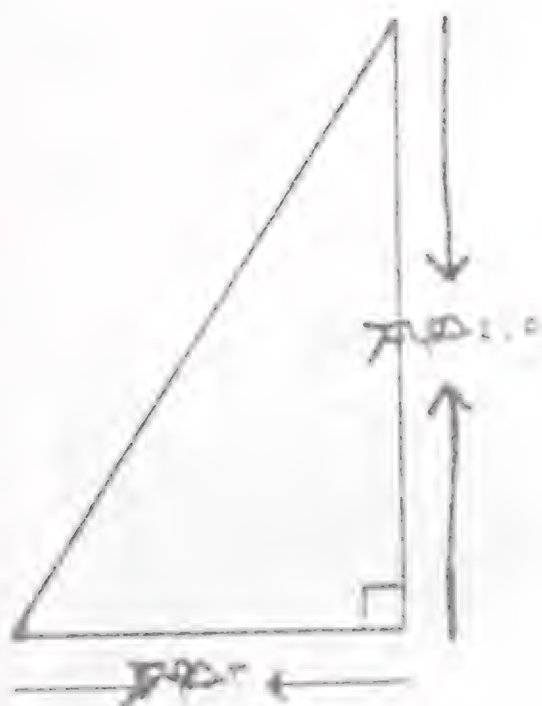


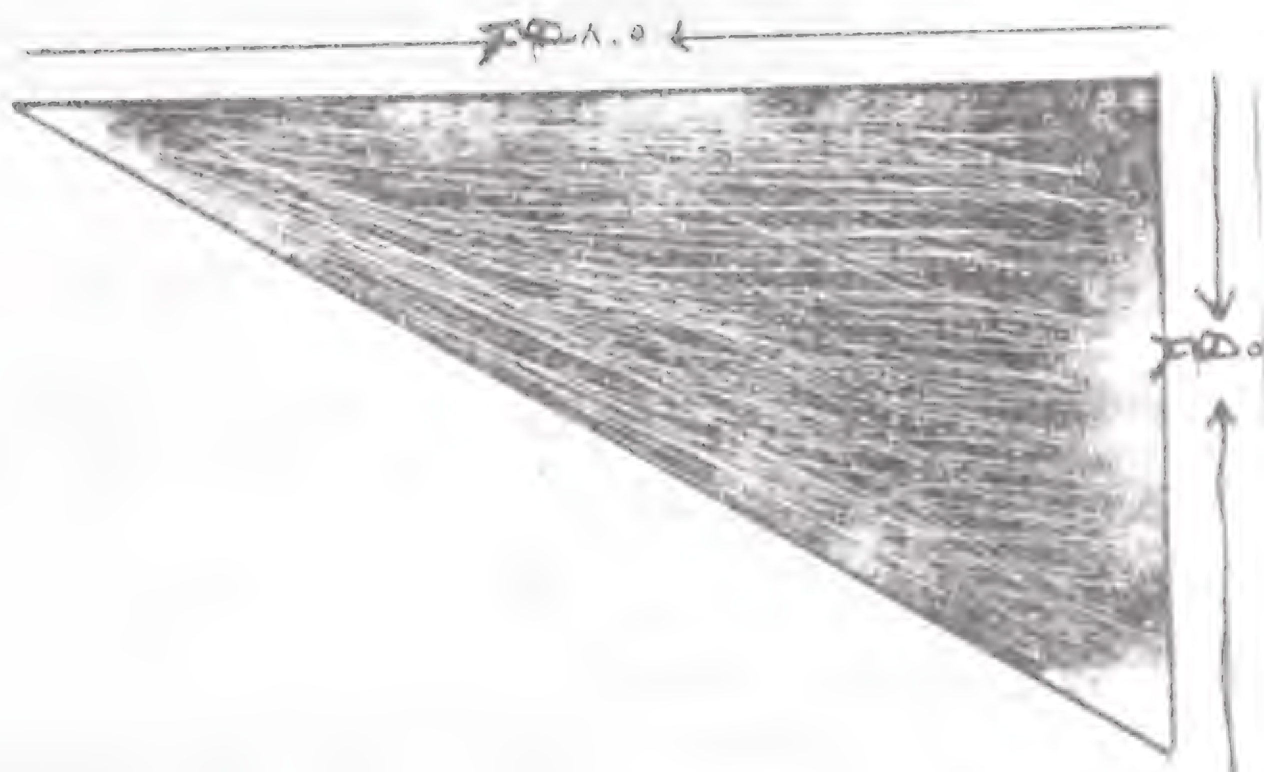
ܡܫܘܚܬܐ ܕܦܬܝܐ ܡܬܠܬܐ

$$= \frac{١}{٢} \times ܩ \times ܪ = \frac{ܩ \times ܪ}{٢}$$

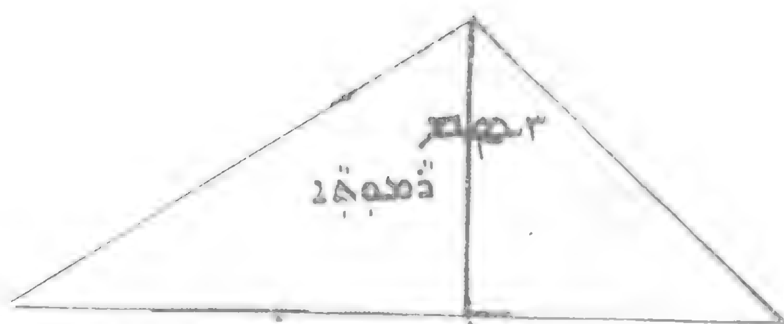
$$= \frac{٧ \times ٤}{٢} \text{ ܣܡ}^{٢}$$

$$= ١٤ \text{ ܣܡ}^{٢}$$





ܚܙܝ ܐܢܝ ܗܘܢ ܗܘܐ ܦܬܝܘܬܐ ܡܬܠܬܐ ܡܫܚܬܐ ܒܡܬܠܬܐ ܠܐ ܘܨܝܟ ܘܨܝܘܗܝ؟ ܐܝܟ ܒܨܘܪܬܐ
(١٠ ـ ٨)
ܒܨܘܪ ܡܬܠܝܬ ܠܒܪ ܐܠܠܐ ܡܬܡܠܐ ܠܐܢܐ،
ܒܐܘܪܚܐ ܦܘܕܟܐ ܕܡܫܘܚܬܐ ܕܦܬܝܠ ܡܢ ܐܪܒܐ ܕܠܡܬܠܬܐ ܗܘ ܪܘܡܐ.
ܒܗܘ ܦܬܝܘܬܐ ܡܬܠܬܐ ܒܨܘܪܬܐ (١٠ ـ ٨)



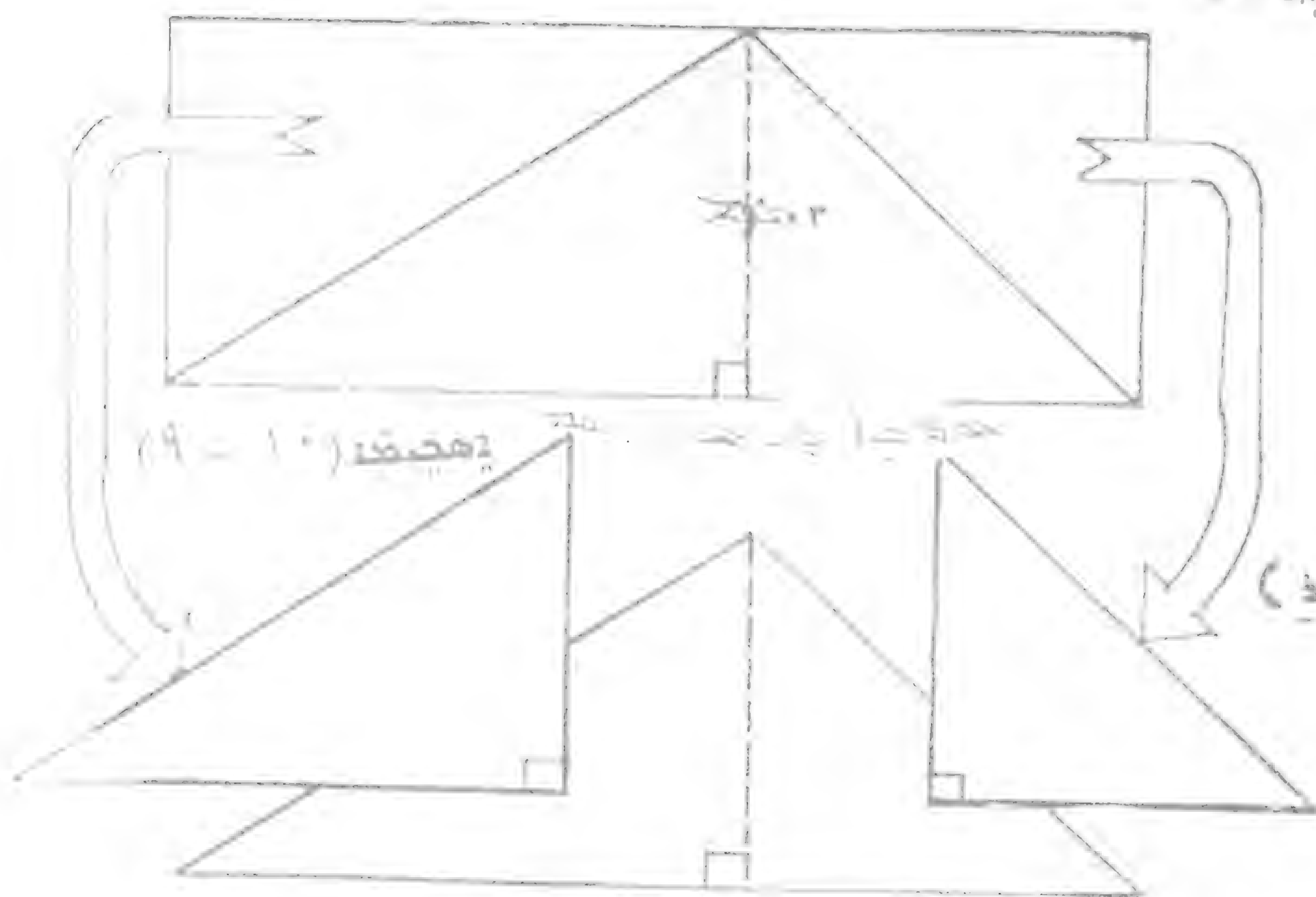
ܦܘܕܟܐ ܕܐܢܐ	= ܦ	= ٨ ܣܡ
ܪܘܡܐ	= ܪ	= ٣ ܣܡ

ܐܝܟ ܪܘܡܘܬܐ ܠܡܬܠܬܐ؟

ܟܠ ܚܕ ܕܡܬܠܬܐ ܕܒܗ ܦܬܝܘܬܐ ܡܬܠܬܐ ܐܝܟ ܒܨܘܪܬܐ (١٠ ـ ٨)، ܦܘܕܟܐ ܕܐܢܗ ٨ ܣܡ ܘܪܘܡܗ ٣ ܣܡ. ܡܢ ܐܝܟ ܕܦܬܝܘܬܐ ܕܦܬܝܘܬܐ ܡܬܝܚܬܐ ܐܝܟ ܒܨܘܪܬܐ (١٠ ـ ٩). ܡܢ ܒܬܪ ܦܬܝܘܬܐ ܡܬܠܬܐ ܕܒܪܬܐ، ܘܒܬܪ ܠܬܪܬܝܢ ܦܠܓܘܬܐ ܡܬܠܬܐ ܟܠ ܚܕ ܘܐܝܟ ܕܗܘܐ ܒܗ ܦܬܝܘܬܐ ܡܬܠܬܐ.

ܐܝܟ ܚܘܪܐ ܗܘܐ؟ ܐܝܟ ܒܗܘܐ ܫܛܝܚܘܬܐ ܕܦܬܝܘܬܐ ܡܬܠܬܐ ܒܝܘܡܐ ܫܛܝܚܘܬܐ ܕܦܬܝܘܬܐ ܡܬܝܚܬܐ؟

ܠܘܩܒܠ:
ܐܢ ܗܘܐ ܦܘܕܟܐ ܕܐܢܐ ܕܦܬܝܘܬܐ
ܕܡܬܠܬܐ = ܦ ، ܘܪܘܡܗ = ܪ
ܫܛܝܚܘܬܐ = ܫ



$ܫ = \frac{1}{2} \times (ܦ \times ܪ)$

$= \frac{1}{2} \times ܦ \times ܪ$

ܬܘܪܝܐ (٤)

ܐܫܟܚ ܫܛܝܚܘܬܐ ܕܟܠ ܚܕܐ ܡܢ ܡܬܠܬܐ ܗܠܝܢ ܕܠܬܚܬ : (ܡܢ ܕܝܕܥܝܢ ܠܡܫܘܚܬܐ ܠܡܫܘܚܬܐ ܕܡܘܪܟܐ ܕܐܣܬܐ ܘܡܬܚܬܐ ܕܪܘܡܐ)

ܡܬܠܐ (١)

ܐܝܟܐ ܒܐܣܝܦܐ ܕܡܬܠܬܐ ܐܘܪܟܐ ܕܐܣܬܗ ٨٠ ܣܢܛܐ ܘܪܘܡܗ ٣٤ ܣܢܛܐ. ܐܫܟܚ ܠܫܛܝܚܘܬܐ ܒܣܢܛܐ ܡܪܒܥܐ.

ܦܘܪ̈ܫܐ :

ܦܬܝܚܘܬܐ ܕܫܟܝܢܬܐ ܡܬܠܬܐ $= \frac{١}{٢} \times ܐ \times ܕ$

ܦܬܝܚܘܬܐ ܕܓܢܬܐ $= \frac{١}{٢} \times ٨٠ \times ٣٤$ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ

$= ٤٠ \times ٣٤ = ١٣٦٠$ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ

ܬܘܪܓܡܐ (٢)

ܠܘܚܐ ܕܦܪܘܩܐ ܡܬܠܬܐ ܕܙܘܝܬܐ ܚܕܐ ܡܢ ܙܘ̈ܝܬܗ ܬܪܝܨܬܐ. ܐܢ ܐܘܪ̈ܟܐ ܕܩܪ̈ܒܘܗܝ ܐܝܬܝܗܘܢ ܐܝܟ ١٠ ܣܡ، ٨ ܣܡ. ܚܫܘܒ ܦܬܝܚܘܬܐ ܠܘܚܐ

ܦܘܪ̈ܫܐ :

ܐ = ١٠ ܣܡ

ܕ = ٨ ܣܡ

ܘܡܢ ܦܬܝܚܘܬܐ ܕܫܟܝܢܬܐ ܡܬܠܬܐ

$ܦ = \frac{١}{٢} \times ܐ \times ܕ$

ܦܬܝܚܘܬܐ $= \frac{١}{٢} \times ١٠ \times ٨$

$= ٤٠$ ܣܡ²

ܬܘܪܓܡܐ (٣)

ܐܝܢܐ ܗܝ ܦܬܝܚܘܬܐ ܕܦܘܪܫܐ ܒܝܬ ܡܬܠܬܐ ܘܐܘܪܟܐ ܕܩܪܒܗ ١٢٠ ܡܝܬܪ̈ܐ ܘܪܘܡܗ ٦٠ ܡܝܬܪ̈ܐ ܘܡܪܒܥܬܐ ܕܐܘܪܟܗ ٩٠ ܡܝܬܪ̈ܐ.

ܚܫܘܒ ܠܦܬܝܚܘܬܐ ܕܦܘܪܫܐ ܘܡܪܒܥܬܐ.

ܦܘܪ̈ܫܐ : ܦܬܝܚܘܬܐ ܕܦܘܪܫܐ ܡܬܠܬܐ $= \frac{١}{٢} \times ܐ \times ܕ$

$= \frac{١}{٢} \times ١٢٠ \times ٦٠ = ٣٦٠٠$ ܡܝܬܪ̈ܐ ܡܪ̈ܒܥܐ

ܦܬܝܚܘܬܐ ܕܦܘܪܫܐ ܡܪܒܥܬܐ =

ܦܬܝܚܘܬܐ ܕܫܟܝܢܬܐ ܡܪܒܥܬܐ $= ܐ \times ܒ$

$٣٦٠٠ = ٩٠ \times ܒ$

ܡ = ٣٦٠٠ ÷ ٩٠ = ٤٠ ܣܢܬܡܝܬܪ̈ܐ

ܡܬܠܐ (٤)

ܦܬܝܐ ܕܐܪܥܐ ܡܫܘܠܫܬܐ ܕܫܘܚܠܦܐ ܥܠܝܡܐ ٥٤٦ ܣܢܬܡܝܬܪ̈ܐ ܡܪܒܥ̈ܐ. ܐܢ ܐܘܪܟܗ ܕܫܘܠܗ ٤٢ ܣܢܬܡܝܬܪ̈ܐ. ܟܡܐ ܗܘ ܪܘܡܗ ؟

ܫܪܝܐ :

$$ܫ = \frac{١}{٢} \times ܐ \times ܪ$$

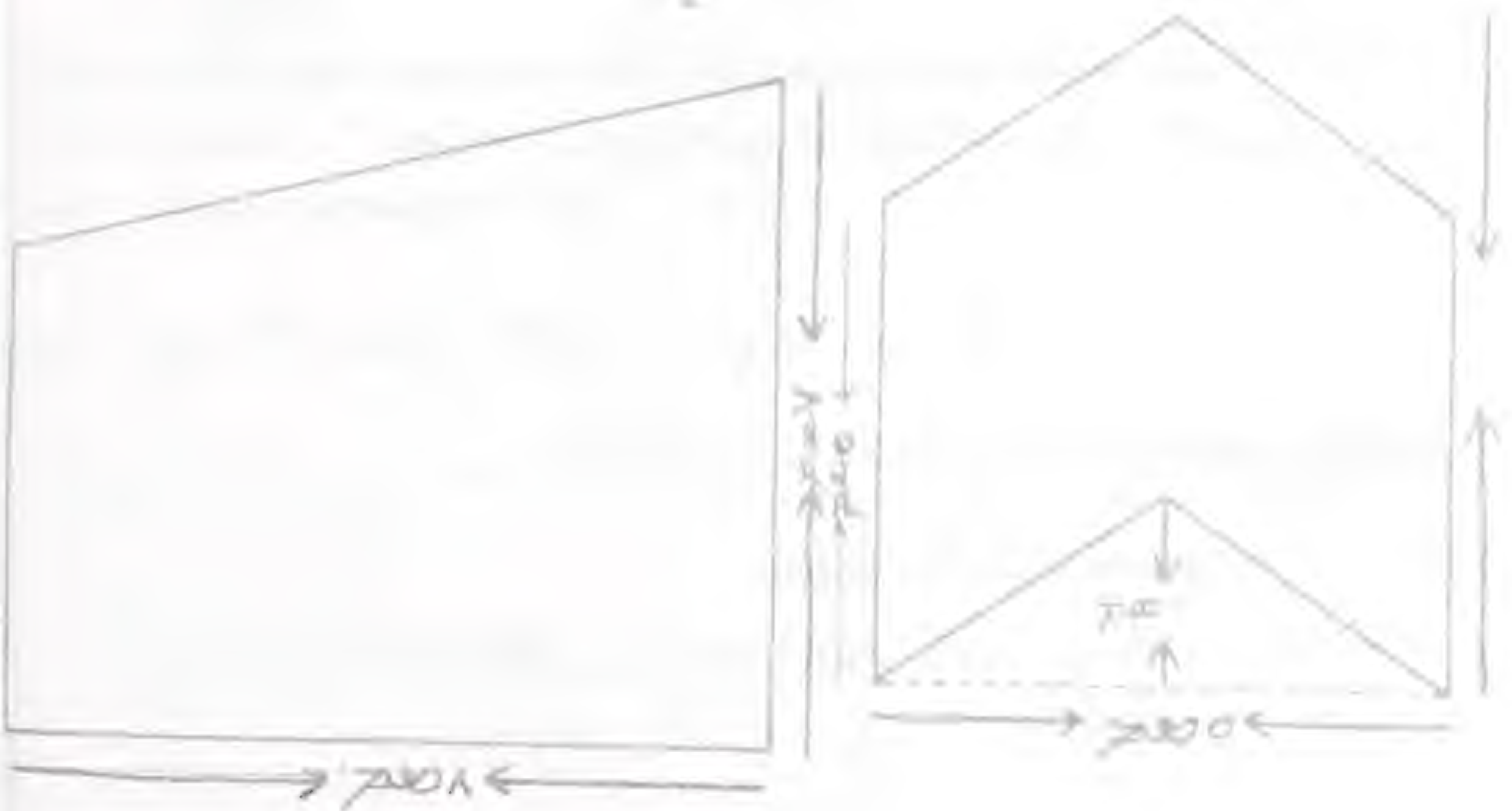
$$٥٤٦ = \frac{١}{٢} \times ٤٢ \times ܪ$$

$$٥٤٦ = ٢١ \times ܪ$$

$$ܪ = \frac{٥٤٦}{٢١} = \frac{١٨٢}{٧} = ٢٦ \text{ ܣܢܬܡܝܬܪ̈ܐ}$$

ܬܘܪ̈ܓܡܐ (١٠ - ٥)

١ ـ ܐܫܟܚ ܫܘܥܬܐ ܕܟܠ ܚܕ ܡܢ ܐܫܟܠ̈ܐ ܕܠܬܚܬ :



٣ - [illegible]

[illegible]

٣ - [illegible]

[illegible]

٤ - [illegible]

[illegible]

٥ - [illegible]

[illegible]

٦ - [illegible]

٧ - [illegible]

٨ - [illegible]

ܚܕܘܬܐ ܕܡܟܥܒܬ̈ܐ



ܟܡ ܡܟܥܒܬܐ ܕܠܘܟܡܐ ܡܟܘܡܥܐ ܒܚܕܘܬܐ ܕܡܟܥܒܬ̈ܐ ܝܠܬܐ ܠܝܠܐ

ܦܘܫܩܐ ܕܚܘܫܒܢܐ

ܡܟܘܫܢܘܬܐ

١١ - ١ ܡܟܘܫܬܐ

ܟܠ ܡܢܝܢ ܗܕܐ ܕܘܟܬܐ ܡܢ ܐܚܪܢܐ. ܘܡܫܠܡܢܐ ܟܫܘܦܐ ܕܗܘܐ ܕܘܟܬܐ ܡܟܘܣܠܦܐ ܕ ܡܢܝܢ ܐܚܪܬܐ ܚܠܦܐ ܕܘܟܬܐ ܡܢ ܐܚܪܢܐ، ܘܗܘܐ ܚܠܦܐ ܕܘܟܬܐ ܡܢ ܐܚܪܢܐ ܝܬܐ ܕܘܟܬܐ ܕܚܠܦܐ

ܐܚܪܬܐ ܟܝܟ ܘܟܘܪ ܡܢ
ܕܘܟܬܐ ܕܚܠܦܐ ܗܠܗ ܝܕܘܥܐ.
ܐܡܪܚ ܕܒܠܘܡܐ ܕܐܚܪܬܐ
ܘܟܘܪ ܡܢ ܒܠܘܡܐ ܕܝܕܘܥܐ.
ܗܕܐ ܘܕܝܚ :

ܒܠܘܡܐ ܕܡܢܝܢ ܝܠܗ ܟܫܘܦܐ
ܕܚܕܐ ܚܝܠܐ ܝܠܗ ܒܠܘܡܐ ܡܢ ܐܚܪܢܐ.

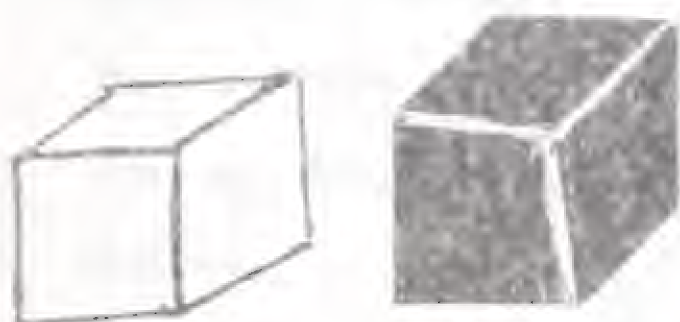
ܡܢ ܚܠܦܐ ܕܘܟܬܐ ܡܢ
ܐܚܪܢܐ ܟܝܟ ܟܬܒܐ ܡܢ ܗܘ ܕܡܠܝܠܗ
ܟܬܒܐ، ܘܠܕܐܗܐ ܟܬܘܒܐ
ܒܠܘܡܐ ܕܡܢܐ ܟܝܟ ܟܬܒܐ ܡܢ
ܒܠܘܡܐ ܕܟܬܒܐ.



ܐܘܪܟܐ ܕܩܢܝܐ ܝܠܗ̇ ܟܪܝܬܐ ܡܢ ܐܘܪܟܐ
ܕܟܬܒܐ، ܘ ܐܘܪܟܐ ܕܟܬܒܐ ܝܠܗ̇ ܐܪܝܟܬܐ ܡܢ ܐܘܪܟܐ
ܕܩܢܝܐ.



ܚܓܡܐ ܕܛܘܦܬܐ ܕܓܪܝܣ ܙܥܘܪܐ ܡܢ
ܚܓܡܐ ܕܛܘܦܬܐ ܕܪܓܠܐ، ܘ ܚܓܡܐ ܕܛܘܦܬܐ ܕܪܓܠܐ
ܝܠܗ̇ ܪܒܐ ܡܢ ܚܓܡܐ ܕܛܘܦܬܐ ܕܓܪܝܣ.



ܝܘܩܪܐ ܡܬܩܠܠܬܐ ܩܠܝܠܐ ܕܘܟܬܐ ܡܢ
ܐܟܝܕ ܟܡܝܘܬܐ ܕܗܝ ܩܝܣܢܝܬܐ ܝܘܩܪܐ
ܠܐ ܡܬܩܠܠܐ. ܟܡܐ ܐܘܪܟܐ ܕܝܘܩܪܐ ܡܬܩܠܠܐ
ܒܝܬܐ. ܐܘܪܟܐ ܕܝܘܩܪܐ ܠܐ ܡܬܩܠܠܐ.

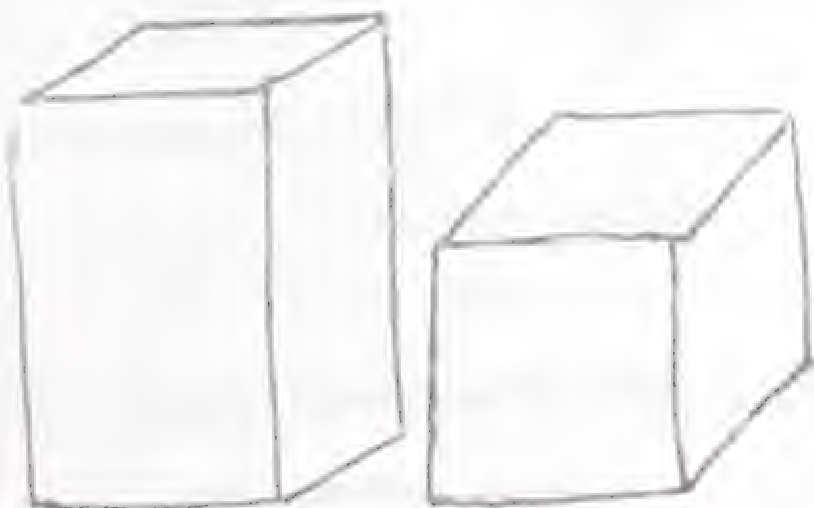


ܫܘܐܠܐ (١)
ܐܝܢܐ ܝܠܗ̇ ܫܢܝܐ ܒܐܘܪܟܐ؟

١ - ܢܘܗܪܐ ܝܢ ܠܒܢܬܐ؟



٢ - ܒܪܬܩܠܐ ܝܢ ܥܢܒܬܐ ؟



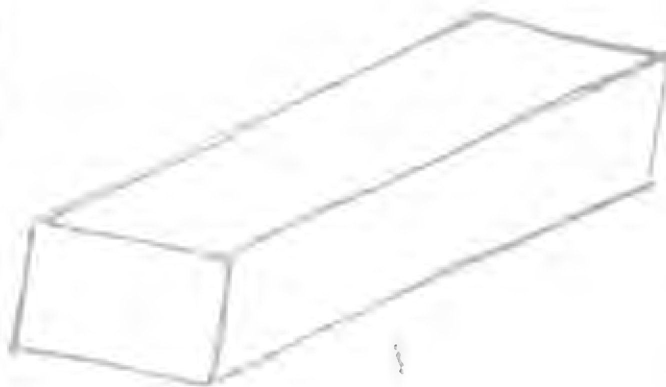
٣ - ܝܘܩܪܐ ܝܢ ܕܟܘܬ ܝܘܩܪܐ ܒܡܟܝܟܘܬܐ ܕܐܘܪܟܐ؟

٤ - ܡܘܢ̈ܐ ܓܘܪ̈ܐ ܝܢ ܡܘܢ̈ܐ ܙܥܘܪ̈ܐ؟









٥ - ܕܝܗܘܢ ܡܘܢ̈ܐ ܐܪ̈ܝܟܐ
ܝܢ ܕܝܗܘܢ ܡܘܢ̈ܐ ܟܪ̈ܝܐ؟

ܬܡܪܝܢܐ (٢)

ܐܣܡ ܠܗܘܢ ܡܫܘܚܬܐ ܒܡܫܚܬܐ ܕܒܢܝ̈ܢܐ (✓) ܘܥܠ ܡܘܬܒܐ ܕܡܫܘܚܬܐ ܒܡܫܚܬܐ ܕܒܢܝ̈ܢܐ (X)

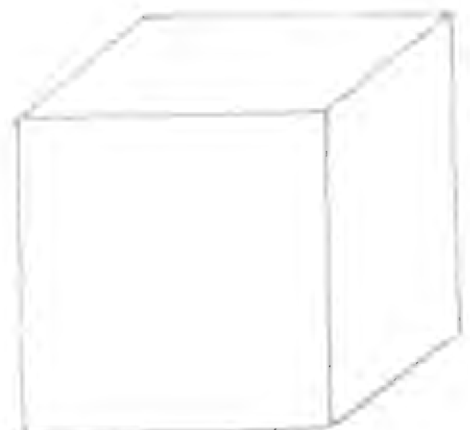
(١)

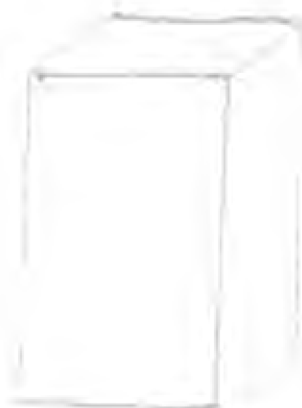






(٢)

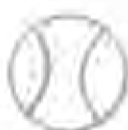






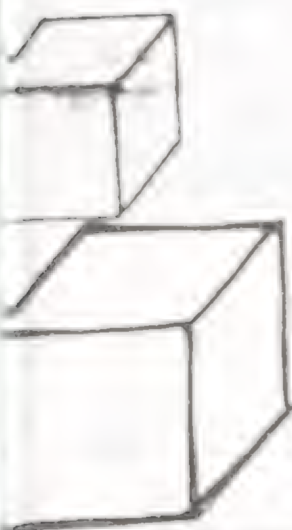
(٣)



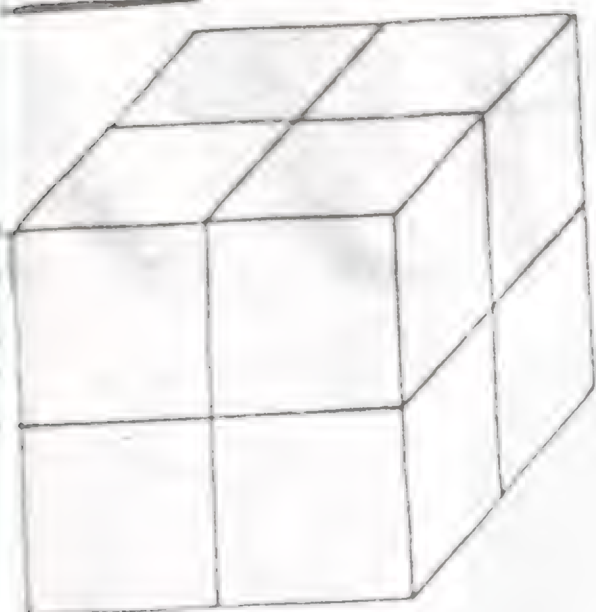




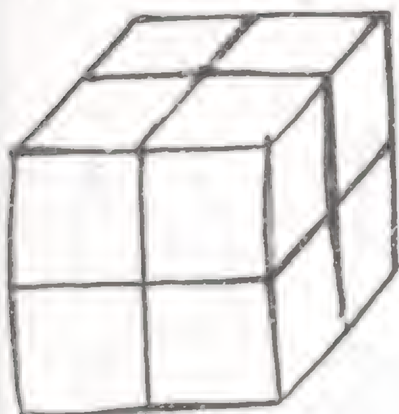
١١ - ٢ ܬܪܡܘܬܐ ܕ ܠܘܒܫܐ



ܐܝܢܐ ܝܠܗ ܚܒܝܫܘܬܐ ܠܘܒܫܐ ، ܡܘܩܒܐ ܡܫܠܡܐ ܐܘ ܠܐ ܡܫܠܡܐ؟
ܝܢ ܡܘܩܦܠܚܠܝ ٨ ܡܘܩܒܐ ܡܫܠܡܐ ܠܡܛܘܪܬܐ ܕܡܘܩܒܐ ܪܒܐ ܐܝܟ ܒܨܘܪܬܐ (١١ - ١) ، ܘܡܘܩܦܠܚܠܝ ٨ ܡܘܩܒܐ ܠܐ ܡܫܠܡܐ ܠܡܛܘܪܬܐ ܕܡܘܩܒܐ ܐܚܪܢܐ ܐܝܟ ܒܨܘܪܬܐ (١١ - ٢) :



ܨܘܪܬܐ (١١ - ١)



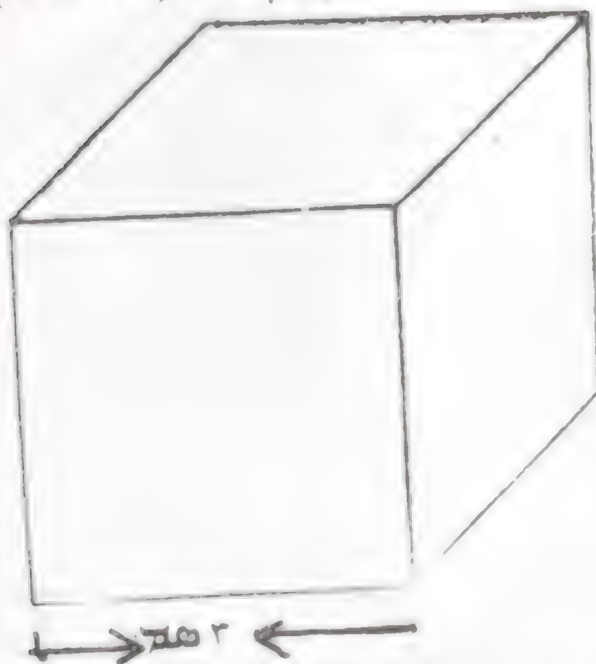
ܨܘܪܬܐ (١١ - ٢)

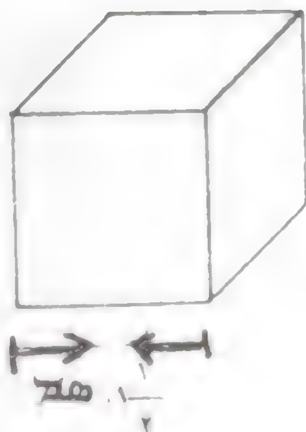
ܠܘܒܫܐ ܕܡܘܩܒܐ ܡܫܠܡܐ ܪܒܐ
= ٨ ܐܢܫ̈ܐ ܕܠܘܒܫܐ ܕܡܘܩܒܐ ܡܫܠܡܐ ܙܥܘܪܐ.

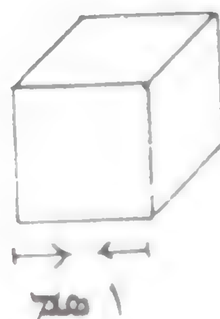
ܠܘܒܫܐ ܕܡܘܩܒܐ ܠܐ ܡܫܠܡܐ ܪܒܐ
= ٨ ܐܢܫ̈ܐ ܕ ܠܘܒܫܐ ܕܡܘܩܒܐ ܠܐ ܡܫܠܡܐ ܙܥܘܪܐ.

ܐܝܢܐ ܟܡܐ ܠܘܒܫܐ ؛ ܕܬܪܘܝܗܝ ܡܘܩܒܐ ܪܒܐ ؟
ܘܠܡܐ ؟

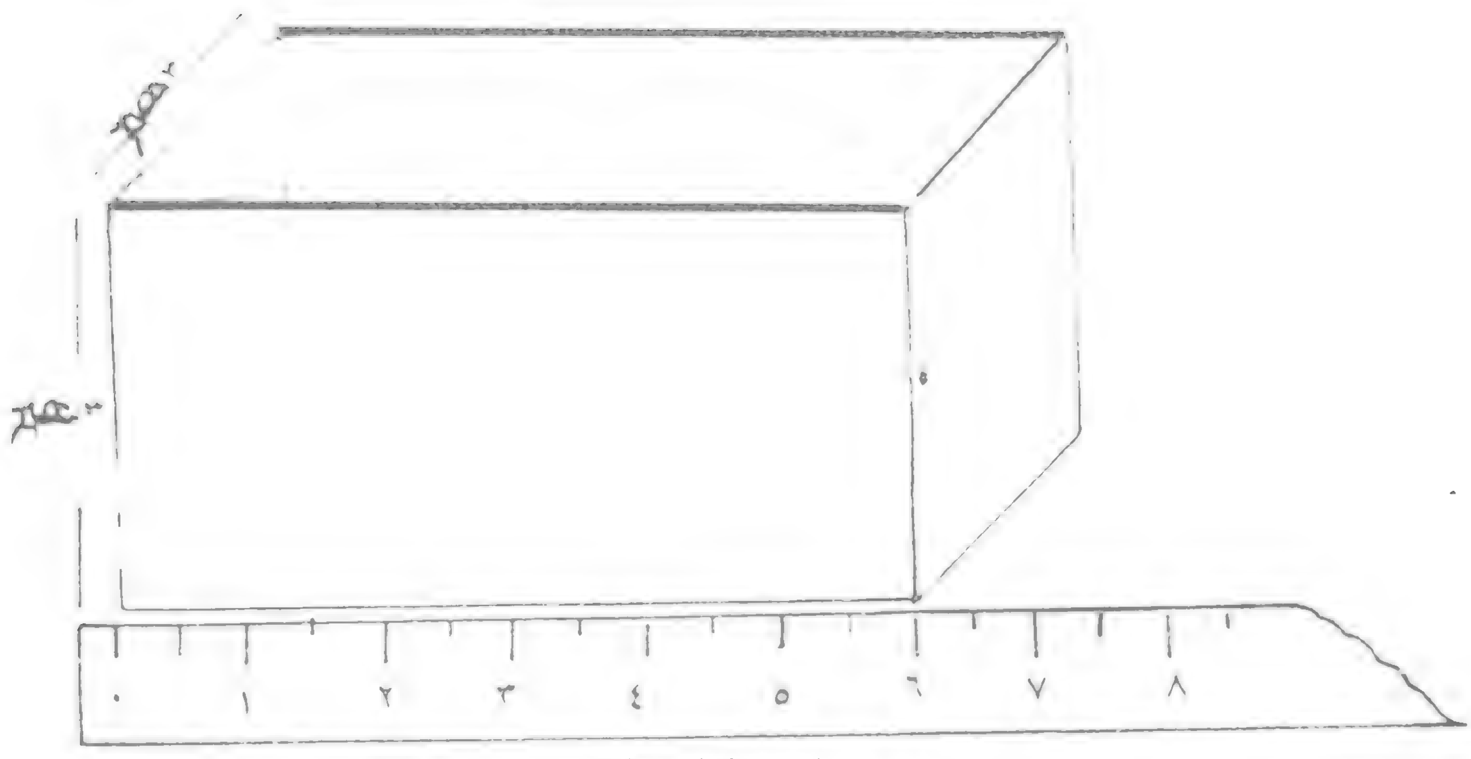
ܚܙܝ ܠܬܠܬܝܗܝ ܡܘܩܒܐ ܕܠܬܚܬ :







ܐܝܟܢ ܝܕܥܬ ܒܨܘܪܬܐ ܕܬܠܬܐ ܡܘܩܒܐ ܐܝܟ ܕܡܘܚܙܝܐ ܒܨܘܪܬܐ (١١ - ٣)، ܘܟܬܘܒ ܕܟܠܝܗ ܠܗ ܒܡܘܩܒܐ ܡܢ ܐܪܒܥܐ ܙܥܘܪܐ، ܓܡ ܡܢ ܐܪܒܥܐ ܪܒܐ، ܓܡ ܡܢ ܐܪܒܥܐ ܘܟܒܝܪܐ ܘܡܫܚܬܐ ܕܡܘܕܥܐ ܕܡܘܩܒܐ ܒܟܠ ܐܢܫܘܬܐ.

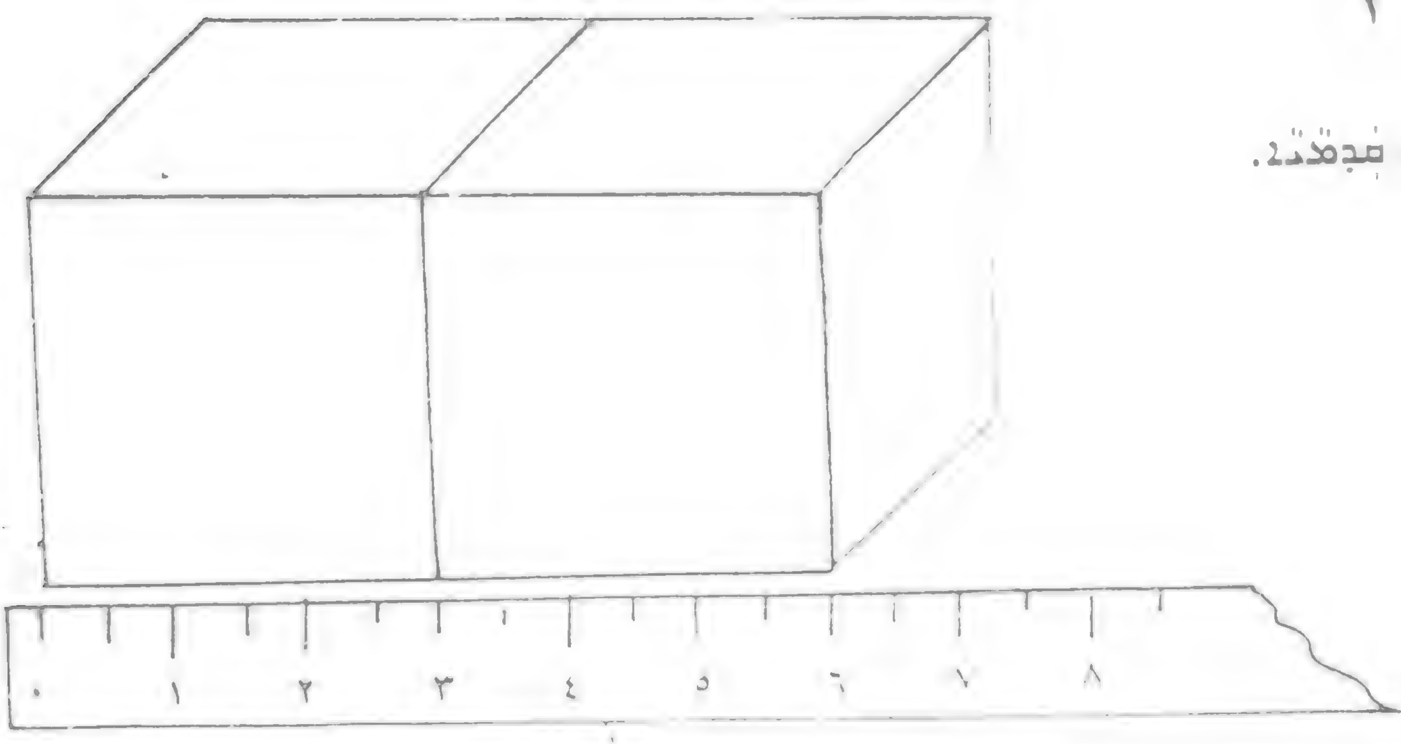


ܨܘܪܬܐ (١١ ـ ٣)

ܨܘܪܬܐ (١١ ـ ٤) ܡܚܘܝܐܠܗ ܐܪܝܟܘܬܐ ܡܪܟܒܬܐ :

ܠܘܚܡܐ ܕܝܒܘܫܐ = ٢

(ܗܕܐ ܡܘܟܥܐ) ܡܢ ܐܪܟܐ ܡܪܟܒܐ.



ܨܘܪܬܐ (١١ ـ ٤)

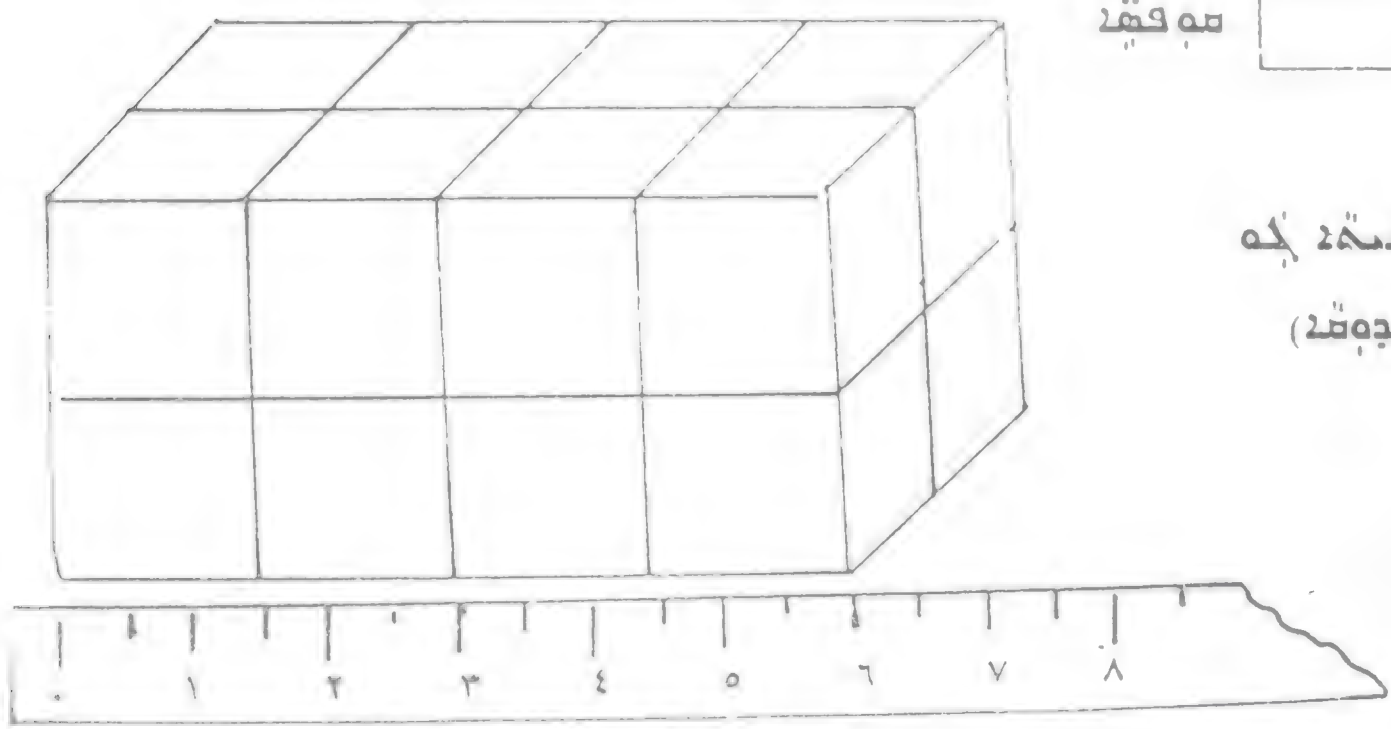
ܨܘܪܬܐ (١١ ـ ٥) ܡܚܘܝܐܠܗ ܐܪܝܟܘܬܐ ܘܦܬܝܘܬܐ :

ܠܘܚܡܐ ܕܝܒܘܫܐ = ☐ ܡܘܟܥܐ

ܡܢ ܐܪܟܐ ܘܦܬܝܐ.

(ܗܘܕ ܠܗܘܢܕܣܘܬܐ ܕܡܬܝܬܐ ܠܗ

ܡܢܝܢܐ ܕ ܠܘܚܡܐ ܕܝܒܘܫܐ)

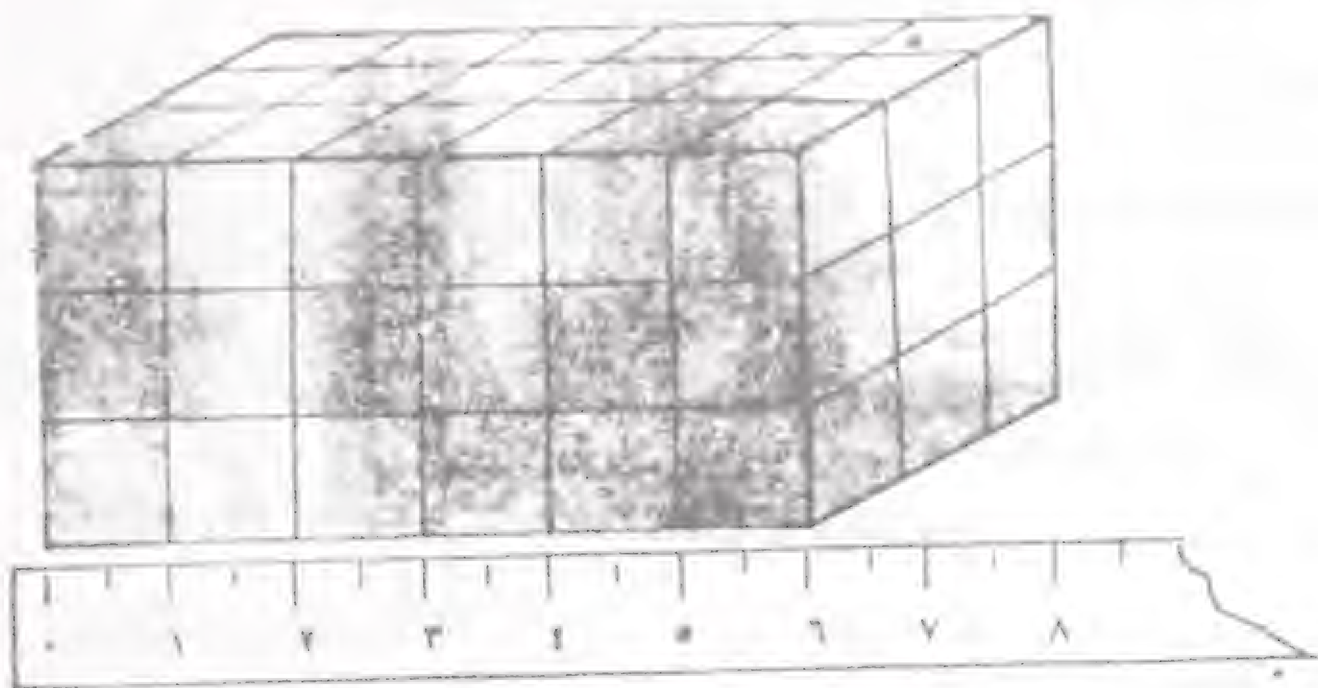


ܨܘܪܬܐ (١١ ـ ٥)

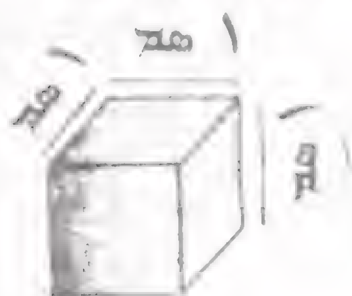
ܒܨܘܪܬܐ (١١ ـ ٦) ܚܙܘܝܬܘܢ ܐܒܢܘܬܐ ܩܘܒܝܐ :

ܚܘܠܡܐ ܕܬܡܢܝܘܬܐ = ☐ ܐܝܟܢܐ

ܡܢ ܐܒܢܐ ܩܘܒܝܐ
ܟܠܗܝ ܚܕܐ ܗܘܐ ܟܡܐ ܕܟܕܝܢܬܐ ܕܚܫܝܒܐ ܗܘܐ
ܠܟܪܝܬܐ ܥܠ ܚܕܘܬܐ
ܠܡܫܚܬܐ ܕܡܫܘܚܬܐ.



ܐܝܟ ܕܡܚܙܐ ܩܘܒܝܘܬܐ ܡܪܒܥܐ ☐ ܚܕܘܬܐ ܚܘܠܡܐ ܕܬܡܢܝܘܬܐ. ܟܕ ܡܫܚܬ
ܩܘܒܐ ܕܟܘܠܗ ܕܐܝܟܢܐ ١ ܣܡ ܚܕܘܬܐ ܠܚܘܠܡܐ ܕܚܘܠܡܐ ܘܟܕ ܗܕܐ ܚܕܐ (
ܩܘܒܝܘܬܐ ܡܪܒܥܐ)، ܘܡܫܘܚܬܗ ܟܡܝܘܬܐ ١ ܣܡ³.

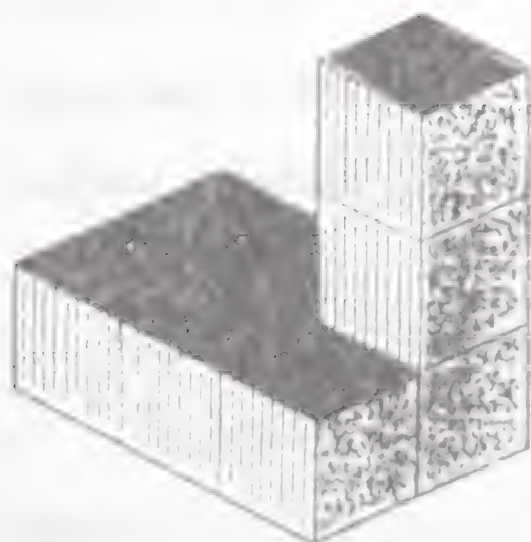


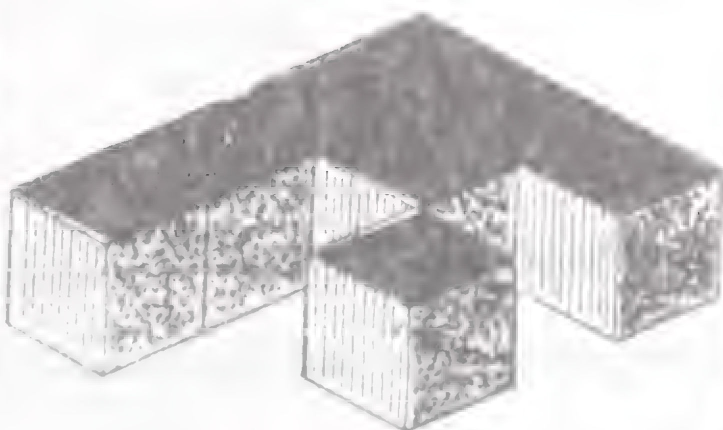
ܡܐ ܚܘܠܡܐ ܕܬܡܢܝܘܬܐ ܕܟܠܗ ܒܐܝܕܐ ܩܘܒܝܘܬܐ ܡܪܒܥܐ؟

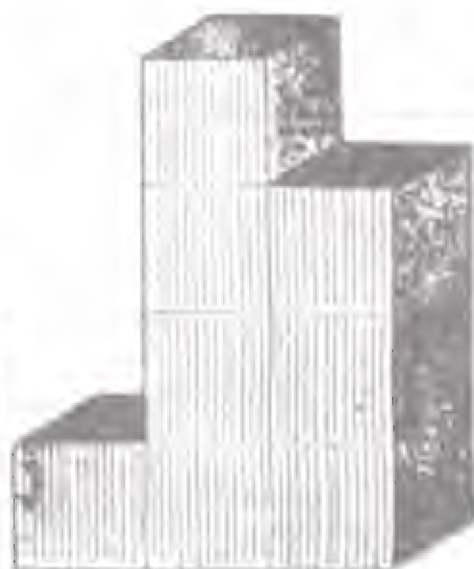
ܩܘܒܝܘܬܐ ܡܪܒܥܐ

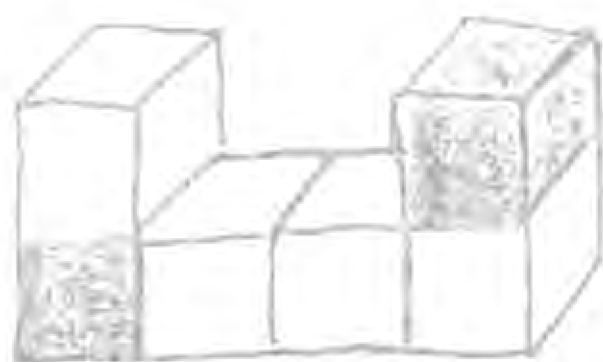
ܨܘܪܬܐ (١١ ـ ٩)

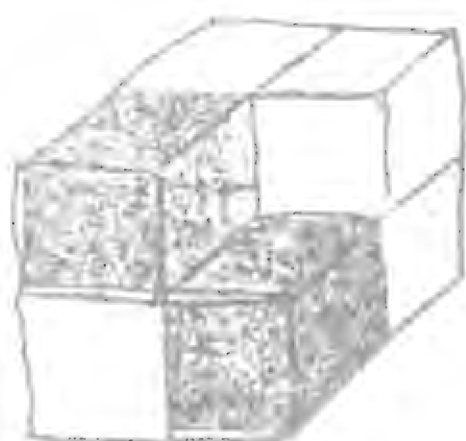
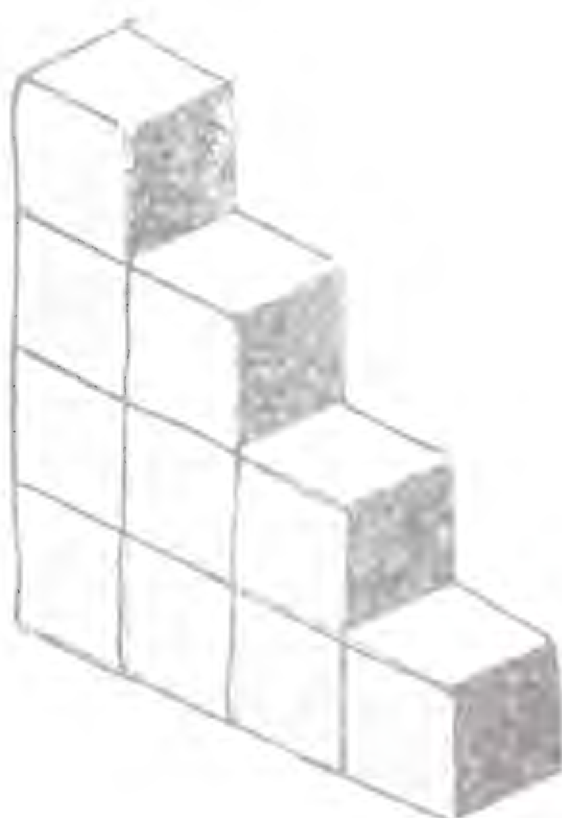
ܟܘܒ ܚܘܠܡܐ ܕܟܠ ܚܘܠܡܐ ܒܩܘܒܝܘܬܐ ܡܪܒܥܐ

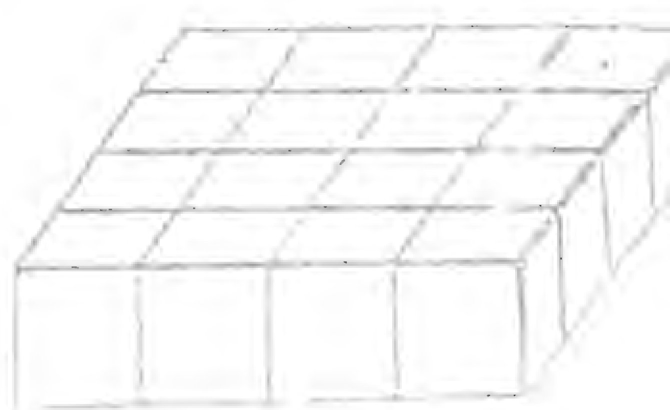
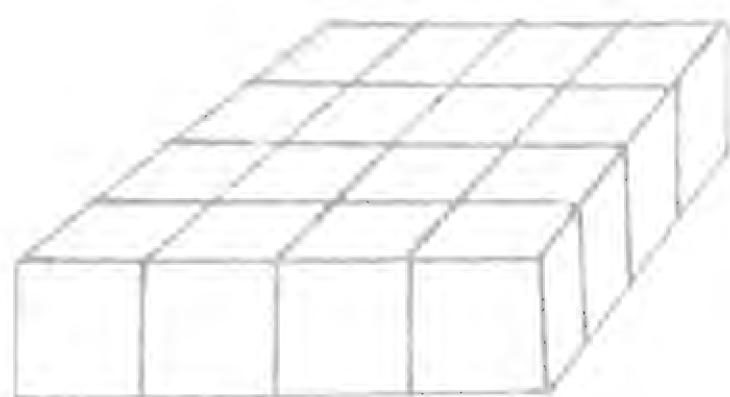
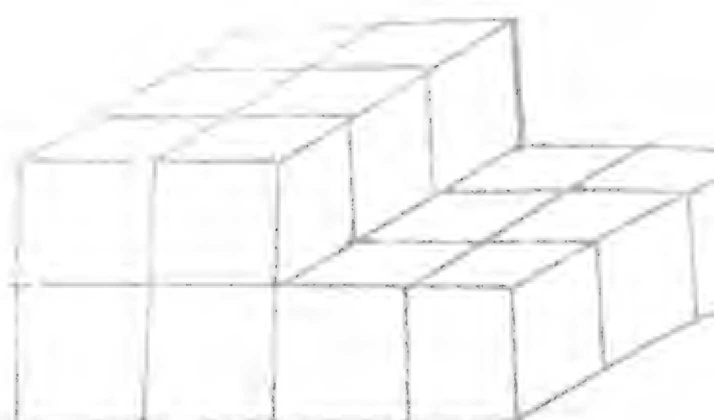


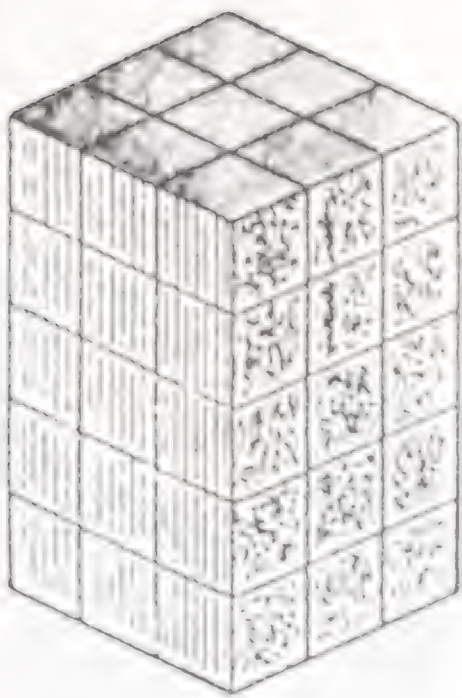


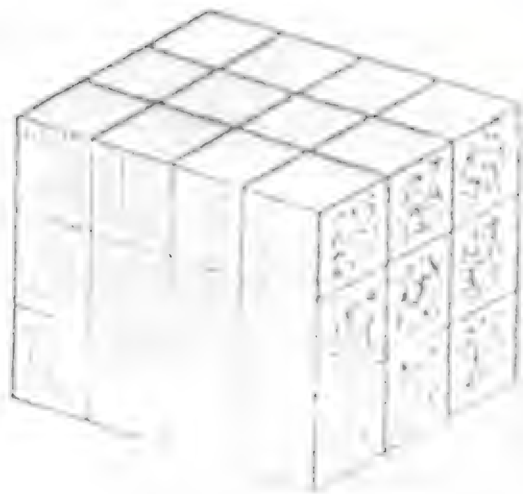




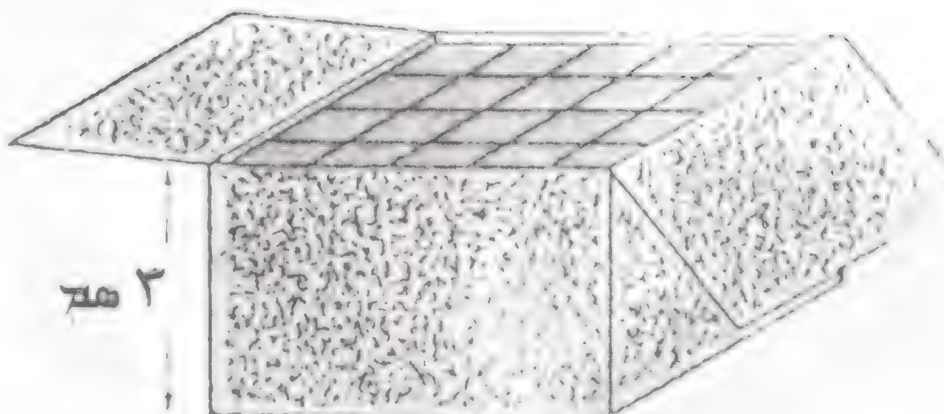




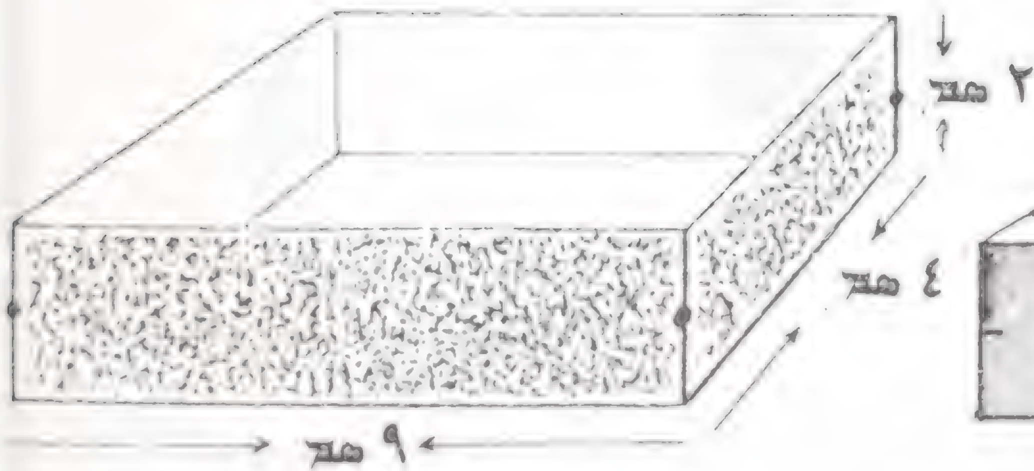







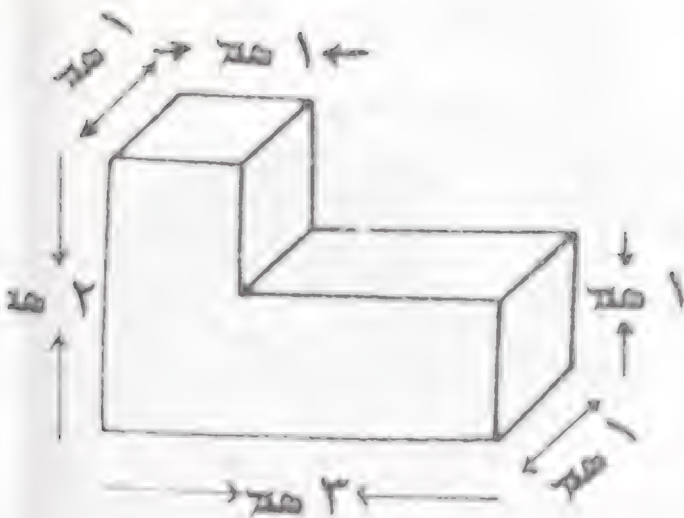


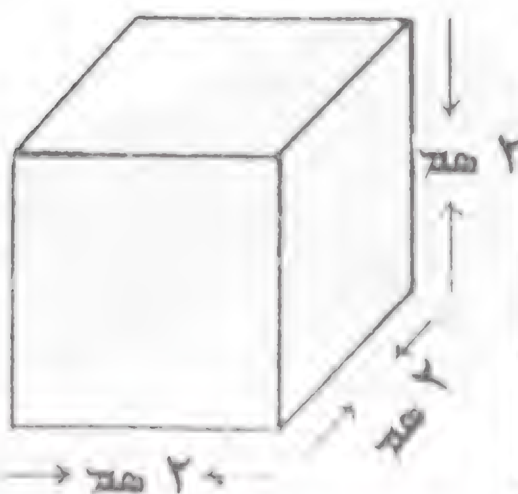


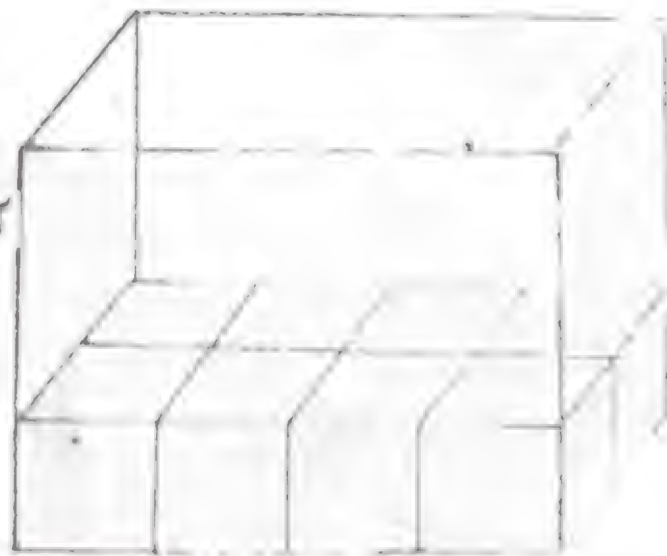

٣ سم


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٢ سم
٢ سم



ܒܩܝܫ ܠܗ ܚܘܕܐ ܓܘܢܐ ܠܡܫܠܡܢܐ ܕܡܫܘܚܘ̈ܬܐ ܝܢ ܟܡܝܬܐ ܠܡܫܚܬܐ ܕܓܘܫܡܐ

ܡܢ ܕܐܟܝ ܡܫܘܚܘ̈ܬܐ :

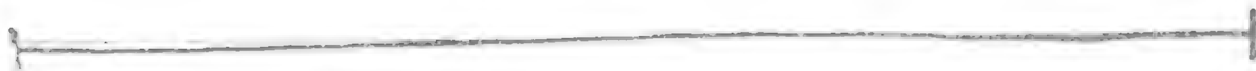
١ - ܕܣܝܡܝܬܪܐ ܡܟܥܒܐ

ܗ̈ܕܟܐ ܕܕܣܝܡܝܬܪܐ = ١٠ ܣܢܬܝܡܝܬܪ̈ܐ

ܝܕܥܢܢ ܡܫܘܚܝܬܗ ܡܫܘܚܘ̈ܬܐ ܕܦܘܪܫܐ : ܣܢܬܝܡܝܬܪܐ ܘܕܣܝܡܝܬܪܐ، ܘܡܫܘܚܝܬܗ ܡܫܘܚܘ̈ܬܐ ܕܫܛܝܚܘܬܐ :

ܣܢܬܝܡܝܬܪܐ ܡܪ̈ܒܥܐ ܘܕܣܝܡܝܬܪܐ ܡܪ̈ܒܥܐ، ܘܡܫܘܚܝܬܗ ܡܢܕܪܝ ܡܫܘܚܘ̈ܬܐ ܕܓܘܫܡܐ :

ܣܢܬܝܡܝܬܪܐ ܡܟܥܒܐ ܘܕܣܝܡܝܬܪܐ ܡܟܥܒܐ.

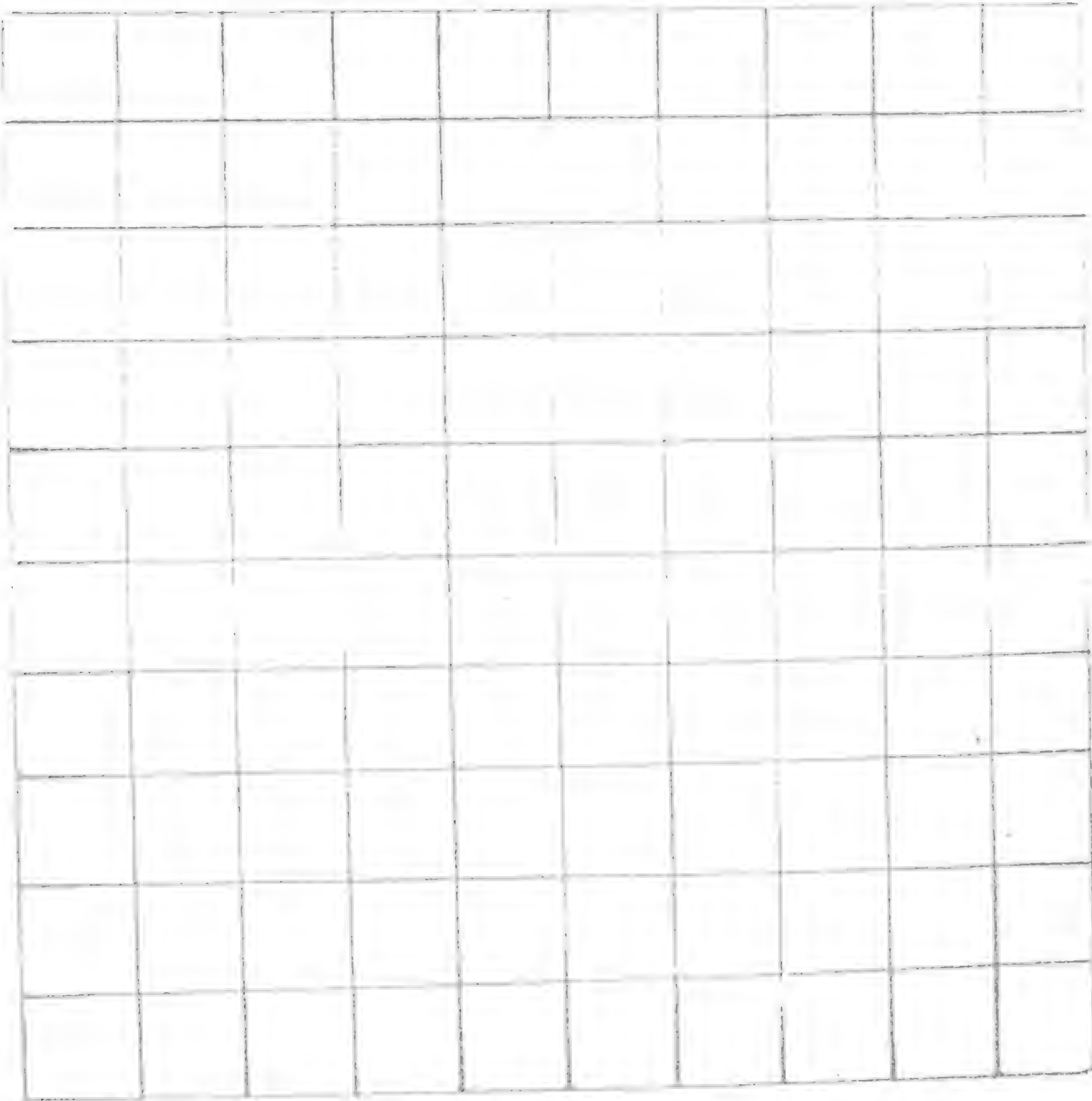


١ ܣܡ

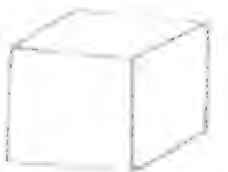
١ ܕܣܡ



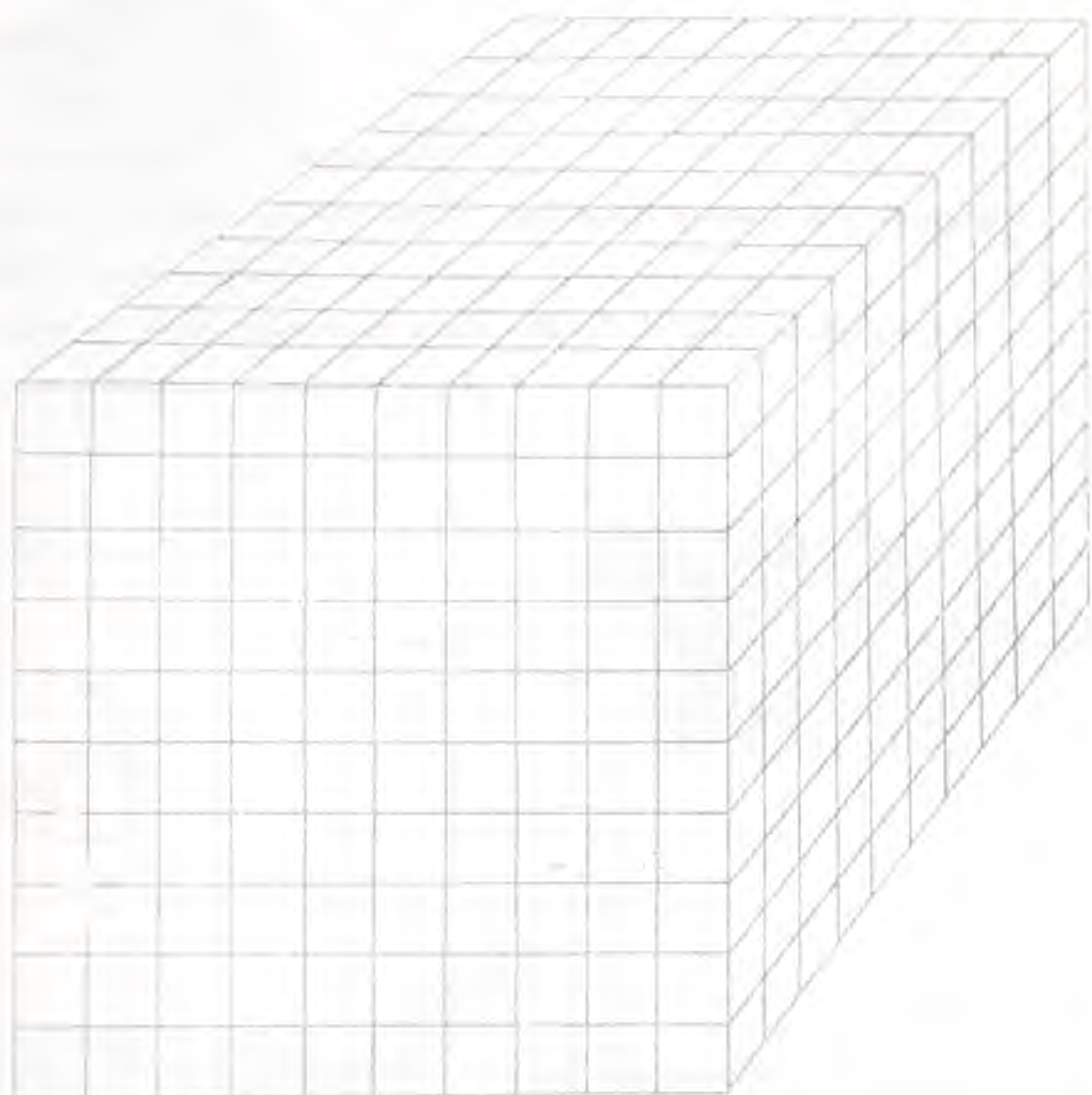
١ ܣܡ²



١ ܕܣܡ



١ ܣܡ³



ܘܠܒܪ̈ܗܐ ܒܗ̈ܘܐ :

ܡܝܬܪܐ ܡܩܘܒܐ = ١٠٠٠ ܕܣܡ^{3}
ܘܡܝܬܪܐ ܡܩܘܒܐ = ١٠٠٠ ٠٠٠ ܣܡ^{3}

ܡܘܬ̈ܠܐ ܦܫܝ̈ܛܐ :

(١) ٣ ܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ = ٣ × ١٠٠٠ = ٣٠٠٠ ܕܣܡ^{3}

(٢) ٨ ܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ = ٨ × ١٠٠٠ = ٨٠٠٠ ܕܣܡ^{3}

= ٨٠٠٠ × ١٠٠٠ = ٨ ٠٠٠ ٠٠٠ ܣܡ^{3}

(٣) ٧٥٠٠ ٠٠٠ ܣܡ^{3} = ٧ ٥٠٠ ٠٠٠ ÷ ١٠٠٠ = ٧ ٥٠٠ ܕܣܡ^{3}

= ٧,٥ ܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ (ܠܡܢܐ؟)

(٤) ٥,٥ ܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ = ٥,٥ × ١٠٠٠ = ٥ ٥٠٠ ܕܣܡ^{3}

(٥) ٣٢٠٠ ܣܡ^{3} = ٣٢٠٠ ÷ ١٠٠٠ = ٣,٢ ܕܣܡ^{3}

ܕܘܪܫܐ (11 - 2)

١ - ܚܫܘܒ ܟܡܐ ܕܗ̈ܘܐ ܠܕܣܝܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ :

(ܐ) ١٧ ܕܣܝܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ - ٢,٣ ܕܣܝܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ - ٠,٤٠٣ ܕܣܝܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ

(ܒ) ٧,٣٤٥ ܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ - ٧,٣ ܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ - ٠,٦٤٢ ܡܝܬܪܐ ܡܩܘܒܐ

٢ - ܚܫܘܒ ܟܡܐ ܕܗ̈ܘܐ ܠܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ :

(ܐ) ٤٥٠٠ ٠٠٠ ܣܡ^{3} - ٩٧٥٠٠ ܣܡ^{3} - ٥٣٠٠٠ ܣܡ^{3}

(ܒ) ٥١٣٢ ܕܣܡ^{3} - ٦٤١٠٦ ܕܣܡ^{3} - ٧٩ ٠٠٠ ܕܣܡ^{3}

٣ - ܚܫܘܒ ܟܡܐ ܕܗ̈ܘܐ ܠܕܣܝܡܝܬܪ̈ܐ ܡܩܘ̈ܒܐ :

(ܐ) ٢٣٧٤ ܣܡ^{3} - ٨٣٠ ܣܡ^{3} - ٤٧٣٥٢ ܣܡ^{3}

(ܒ) ٠,٢ ܡܝܬܪܐ ܡܩܘܒܐ - ٠,٢٣٧ ܡܝܬܪܐ ܡܩܘܒܐ - ٢,٣٧ ܡܝܬܪܐ ܡܩܘܒܐ

ܡܠܝ ܠܗܘܕܓܐ ܕܐܬܐ :

ܦܘܬܝܐ ܒܡܝܬܪ̈ܐ ܡܪ̈ܘܒܥܐ	ܦܘܬܝܐ ܒܣܢܬܝܡܝܬܪ̈ܐ ܡܪ̈ܘܒܥܐ	ܦܘܬܝܐ ܒܡܝܠܝܡܝܬܪ̈ܐ ܡܪ̈ܘܒܥܐ
١		•
	٣٠٠٠	
		٦٢٠٠٠
٠,٠٠٣		

٥ - ܡܦܝܫܠܗ ܦܠܓܐ ܕܕܪܬܐ ܒܓܢܒܝܗ ܘܦܘܬܝܐ ܡܝܬܪ̈ܐ ܡܪ̈ܘܒܥܐ ܡܢ ܚܕܐ. ܡܫܡܠܗ ܠܡܠܝܬܐ ܕܐܕܘܟܐ ܕܓܢܒܝܗ ١٠ ܟܘܪܐ ܠܟܪ̈ܝܬܐ ܕܐܪܥܐ ܚܕܐ. ܡܟܡܐ ܦܘܬܝܐ ܕܐܕܘܟܐ ܕܓܢܒܝܗ ܒܣܢܬܝܡܝܬܪ̈ܐ ܡܪ̈ܘܒܥܐ ؟

هەریمی کوردستانی
عیراق
وەزارەتی پەروەردە

ܡܠܟܘܬܐ ܕܟܘܪܕܣܬܢ
ܕܥܝܪܐܩ
ܘܙܝܪܘܬܐ ܬܪܒܝܬܐ

5

ܡܢܝܢܐ
ܠܣܕܪܐ ܚܡܫܝܐ ܫܪܫܝܐ

